

HP D8904 SERVICE MANUAL



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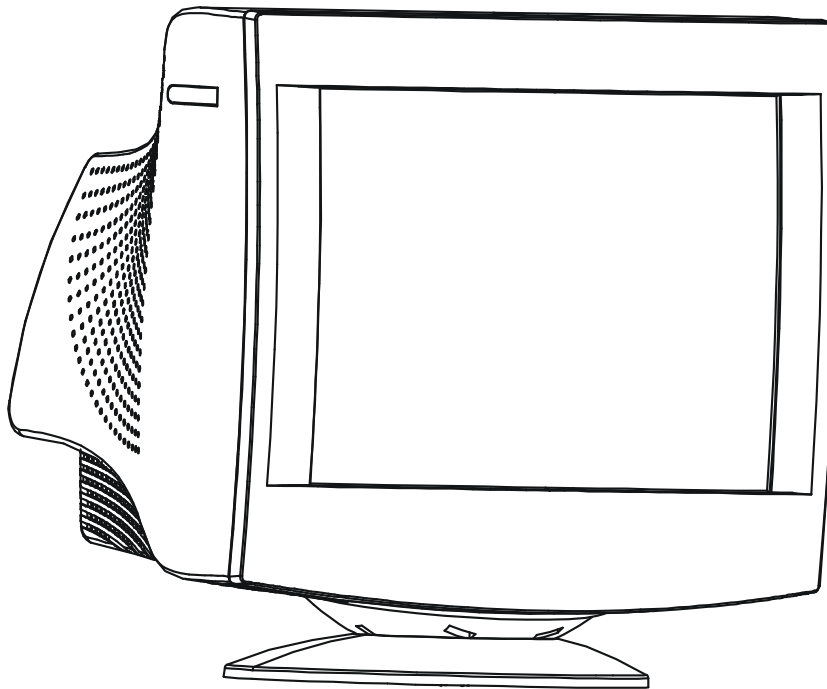
parts list of cabinet

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SERVICE MANUAL

COLOR MONITOR

Hewlett Packard D8904 D8905A S761V



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1. SPECIFICATIONS FOR D8905A SERIES COLOR MONITOR

1. CRT : 43.2CM(17") 90 Deflection, 29mm Neck, 0.27mm Dot Pitch, Non-Glare Screen
2. Viewable image Size: 40.6CM (16") diagonal
3. Display Color: Unlimited Colors
4. External Controls:
Power On/Off, OSD key, Function knob: Contrast, Brightness, H-Size, H-Center, V-Center, V-Size, ZOOM, Pincushion, Trapezoid, Pin-Balance, Parallelogram, Rotation, Color Temperature, Degaussing, Moire Reduce, Recall, Language.
5. Input Video Signal

Mode	1	2	3	4	5	6	7	8	9
Horizontal Freq. (KHz)	31.47	31.47	37.5	43.27	46.87	53.67	60.02	68.67	63.98
Dot Clock (MHz)	25.18	28.18	31.5	36	49.5	56.25	78.75	94.5	108
Horizontal Lines	720	640			800		1024		1280
Vertical Lines	400	480			600		768		1024
H. Sync Polarity	NEG	NEG	NEG	NEG	POS	POS	POS	POS	POS
H. Period (μs)	31.78	31.78	26.67	23.11	21.333	18.63	16.66	14.56	15.63
H. Sync Width (μs)	3.18	3.81	2.03	1.56	1.616	1.138	1.219	1.016	1.037
H. Back Porch (μs)	1.96	1.589	3.81	2.22	3.232	2.702	2.235	2.201	2.296
H. Active (μs)	25.42	25.42	20.32	17.78	16.162	14.22	13	10.83	11.85
H. Front Porch (μs)	0.64	0.64	0.51	1.56	0.323	0.569	0.203	0.508	0.444
H. Blanking (μs)	6.36	5.72	6.35	5.33	5.172	4.409	3.657	3.725	3.778
Vertical Freq. (Hz)	69.93	59.94	75	85.01	75	85.06	75.02	84.99	60.02
V. Sync Polarity	POS	NEG	NEG	NEG	POS	POS	POS	POS	POS
V. Period (ms)	14.3	16.68	13.33	11.76	13.333	11.75	13.32	11.76	16.66
V. Sync Width (ms)	0.06	0.06	0.08	0.07	0.064	0.056	0.05	0.044	0.047
V. Back Porch (ms)	1.14	0.79	0.43	0.58	0.448	0.503	0.466	0.524	0.594
V. Active (ms)	12.71	15.25	12.8	11.09	12.8	11.17	12.79	11.18	16
V. Front Porch (ms)	0.38	0.064	0.03	0.02	0.021	0.019	0.017	0.015	0.016
V. Blanking (ms)	1.59	0.92	0.53	0.67	0.533	0.578	0.533	0.582	0.656

6. Display Size
Horizontal: 300 mm
Vertical: 230 mm
7. Scanning Frequencies
Horizontal: 30KHz ~ 70KHz
Vertical: 50 Hz ~ 130 Hz
8. Factory Preset Timings: 9
User Timings: 8
9. Misconvergence
Center: 0.3 mm Max.
Corner: 0.4 mm Max.

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10. Video Bandwidth: 110 MHz
11. Power Source:
Switching Mode Power Supply
AC 100 ~240V, 50/60Hz Universal Type
12. Operating Temperature: 0°CXC to 40°CXC Ambient
13. Humidity: 10% to 85% Relative, Non-Condensing
14. Weight: 16.0 Kgs(Net), 19.0Kgs(Gross)
15. Dimensions Monitor:
Carton: 495(W) × 455(H) × 530(D) mm
Monitor: 410(W) × 402(H) × 420(D) mm
16. External Connection:
15 Pin D-type Connector
AC Power Cord
17. Regulations:UL, CSA, FDA, FCC, TÜV/GS, CE, MPR-II, TCO'99.

2. PRECAUTIONS AND NOTICES

2-1 SAFETY PRECAUTIONS

1. Observe all caution and safety related notes located inside the display cabinet.
2. Operation of the display with the cover removed, may cause a serious shock hazard from the display power supply. Work on the display should not be attempted by anyone who is not thoroughly familiar with precautions necessary when working on high voltage equipment.
3. Do not install, remove or handle the picture tube in any manner unless shatter-proof goggles are worn. People who are not so equipped should be kept away while handling picture tube. Keep picture tube away from the body while handling.
4. The picture tube is constructed to limit X-RAY radiation to 0.5 mR/HR. For continued protection, use the designated replacement tube only, and adjust the voltages so that the designated maximum rating at the anode will not be exceeded.
5. Before returning a serviced display to the customer, a thorough safety test must be performed to verify that the display is safe to operate without danger or shock. Always perform an AC leakage current check on the exposed metallic parts of the cabinet, such as screw heads.
Test method for current leakage is described as follow.
 - (a) Plug the AC line cord directly into rated AC outlet (do not use a line isolation transformer during this check).
 - (b) Use an AC voltmeter having 5000 ohms per volt or with more sensitivity in the following manner: Connect a 1500 ohms 10 Watt resistor, paralleled by a 0.15UF, AC type capacitor between a known good earth ground (water pipe, conduit, etc.) and the exposed metallic parts simultaneously. Measure the AC voltage across the combination of 1500 ohms resistor and 0.15UF capacitor.
 - (c) Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metallic part.
 - (d) Voltage measured must not exceed 0.5 volts RMS. This corresponds to 0.35 milliamp AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.

2-2 PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety visual inspections and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Before replacing any of these components read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, X-RAY radiation or other hazards.

2-3 SERVICE NOTES

1. When replacing parts or circuit boards, clamp the lead wires around terminals before soldering.
2. When replacing a high wattage resistor (more than 1/2W of metal oxide film resistor) in circuit board, keep the resistor about 10mm (1/2 in) away from circuit board.
3. Keep wires away from high voltage or high temperature components.
4. Keep wires in their original position so as to reduce interference.

HIGH VOLTAGE WARNING

Operation of monitor outside of cabinet or with back removed may cause a serious shock hazard. Work on this model should only be performed by those who are thoroughly familiar with precautions necessary when working on high voltage equipment.

Exercise care when servicing this chassis with power applied. Many B plus and high voltage terminals are exposed which, if carelessly contacted, can cause serious shock or result in damage to the chassis. Maintain interconnecting ground lead connections between chassis and picture tube dag when operating chassis.

Certain HV failures can increase X-ray radiation. Monitor should not be operated with HV levels exceeding the specified rating for the chassis type. The maximum operating HV specified for the chassis used in this monitor is

25KV ; 0 1KV

with a line voltage of 120/240 VAC. Higher voltage may also increase possibility of failure in HV supply.

It is important to maintain specified values of all components in the horizontal and high voltage circuits and anywhere else in the monitor that could cause a rise in high voltage or operating supply voltages. No changes should be made to the original design of the monitor. Components shown in the shaded areas on the schematic should be replaced with exact factory replacement parts. The use of unauthorized substitute parts may create a shock, fire or other hazard.

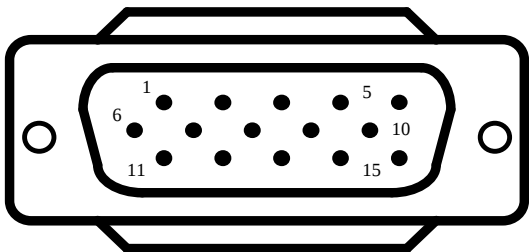
To determine the presence of high voltage, use accurate, high impedance, HV meter connected between second anode lead and CRT dag grounding device. When servicing the High Voltage System, remove static charge from it by connecting a 10K ohm resistor in series with an insulated wire (such as a test probe) between picture tube dag and 2nd anode lead.(AC line cord disconnected from AC power outlet.)

The picture tube used in this monitor employs integral implosion protection. Replace with tube of the same type number for continue safety. Do not lift picture tube by the neck. Handle the picture tube only after discharging the high voltage completely.

3. OPERATING INSTRUCTIONS

This procedure gives you instructions for installing and using the Color display.

- 1. Position the display on the desired operation and plug the power cord into a convenient AC outlet. Three-wire power cord must be shielded and is provided as a safety precaution as it connects the chassis and cabinet to the electrical conduit ground. If the AC outlet in your location does not have provisions for the grounded type plug, the installer should attach the proper adapter to ensure a safe ground potential.
- 2. Connect the 15-pin color display shielded signal cable to your signal system device and lock both screws on the connector to ensure firm grounding. The connector information is as follow:



15 - Pin Color Display Signal Cable

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1.	RED	9.	NC
2.	GREEN	10.	NC
3.	BLUE	11.	SYNC. GND
4.	GND	12.	SDA
5.	NC	13.	HORIZ. SYNC
6.	GND-R	14.	VERT. SYNC (i^{-} VCLK)
7.	GND-G	15.	SCL
8.	GND-B		

- 3. Apply power to the display by turning the power switch to the "ON" position and allow about thirty seconds for display tube warm-up. The Power-On indicator lights when the display is on.
- 4. With proper signals feed to the display, a pattern or data should appear on the screen, adjust the brightness and contrast to the most pleasing display.
- 5. This monitor has power saving function following the VESA DPMS. Be sure to connect the signal cable to the PC.
- 6. If your color display requires service, it must be returned with the power cord.

4. ADJUSTMENT

4-1 ADJUSTMENT CONDITIONS AND PRECAUTIONS

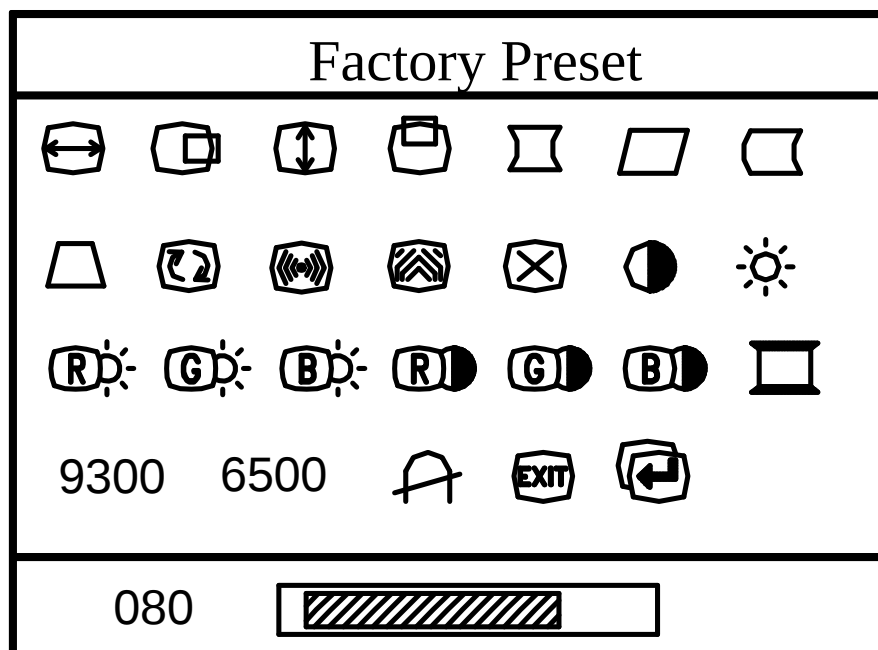
1. Approximately 30 minutes should be allowed for warm up before proceeding.
2. Adjustments should be undertaken only on those necessary elements since most of them have been carefully preset at the factory.

4-2 MAIN ADJUSTMENTS

NO.	FUNCTION	LOCATION	DESIGNATION
1.	14V ADJ	PCB - MAIN	VR903
2.	B + ADJ	PCB - MAIN	VR902
3.	SCREEN ADJ	FLY BACK TRANS	T402
4.	FOCUS ADJ	FLY BACK TRANS	T402
5.	ABL ADJ	PCB - MAIN	VR701
6.	SUB-BRIGHTNESS ADJ	PCB - MAIN	VR702
	-MENU	PCB - MAIN	SW101
	-UP ►	PCB - MAIN	SW102
7.	FUNCTION ADJ -DOWN ◀	PCB - MAIN	SW103
	-EXIT	PCB - MAIN	SW104

4-3 ADJUSTMENT METHOD

1. 14V, B + & HV voltage adjustment:
 - A. Chroma-2000 Signal generator or PC equivalent set mode 1, VGA 640X480 pattern 1.0 .
 - B. Connect a DC Volt meter between TP903 and ground, then adjust VR903 to be 14VDC.
 - C. Connect a DC Volt meter between TP902 and ground, then adjust VR902 to be 61 VDC.
 - D. Connect a DC Volt meter between TP701 (G1) and ground, Brightness set to max. Then adjust VR702 to be -55 VDC.
2. Factory preset Timings Adjustment:
 - A. Press MENU Key to show OSD window press Up or Down Key to switch the functional controls.
 - B. Press the Up Key to select the "ZOOM" function, then press the MENU Key. While do not release the MENU Key until the OSD window changed to the Factory preset window.
 - C. The Factory preset window contains the following functional controls. Select one of the control. Then press the Up/Down Key to adjust its value for the optimum picture.



CONTRAST



H-MOIRE REDUCE

	BRIGHTNESS		V-MOIRE REDUCE
	H-CENTER		R-GAIN
	H-SIZE		G-GAIN
	V-CENTER		B-GAIN
	V-SIZE		R-BIAS
	ZOOM		G-BIAS
	PINCUSHION		R-BIAS
	TRAPEZOID	9300	COLOR TEMPERATURE
	PIN-BALANCE	6500	COLOR TEMPERATURE
	PARALLELOGRAM		DEGAUSS
	ROTATION		OSD EXIT
	CORNER		RETURN

D. To switches the input signal to the other Timing Mode. Please follow step A ~ C to get the optimum picture.

- E. Select the "  " RETURN function and press the MENU Key, then the Factor Preset window will be returned to the original OSD window.(user's operating condition)
- F. The setting data of the CONTRAST, BRIGHTNESS, PIN-BALANCE, PARALLELOGRAM, ROTATION, COLOR TEMPERATURE are common mode saved in the memory. Don't needed adjust it individual at every timing Mode and save in the memory.

3. White Balance, Luminance adjustment:

A. Bias (Low Luminance) adjustment:

- Set mode 1 640i/480 Fh: 31KHz full white pattern.
- To make the adjustment condition is under the Factory preset window. Same as step 2-B.
- Warm up more than 20 minutes.
- Brightness  set to maximum. Contrast  set to min. full white pattern, then adjust FBT screen VR to make $Y = 5 \sim 12 \text{ cd/m}^2$
- Brightness set to raster just cutoff, adjust contrast to be 4FL, then adjust G-Bias  , B-Bias  , R-Bias  , to make the setting value is(50), then adjust the R.G.B Bias individual to the color temperature $x = 283 \pm 10$, $y = 298 \pm 10$.

B. Gain (High light) adjustment:

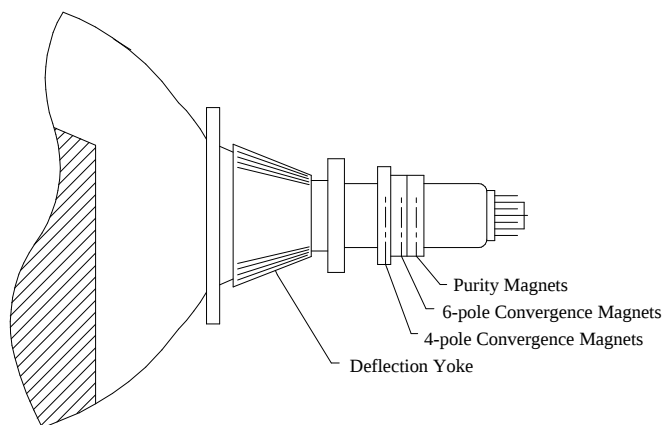
- Set mode 1 640i/480 Fh: 31.5KHz full white pattern.
 - Brightness set to raster just cutoff and set the contrast to max.
 - Adjust G-Gain  , B-Gain  , R-Gain  , to make color temperature $x = 283 \pm 10$, $y = 298 \pm 10$.
 - Change to 20% window white pattern then adjust contrast to $165 \pm 25 \text{ cd/m}^2$.
- C. Recheck item A&B to make sure both of them in spec. Finally select OSD function to the 9300 ϕ XK function, then press the MENU Key. To make the setting data saved in the memory.
- D. The adjustment of 6500 ϕ XK white Balance, May follow step A ~ C , with the $x = 313 \pm 10$, $y = 329 \pm 10$.
- E. Full white luminance:
- Set mode 1 640i/480 Fh: 31.5KHz full white pattern.
 - Image Size : H:300 $\pm 4 \text{ mm}$ V:230 $\pm 4 \text{ mm}$.
 - Brightness set to raster just cut off and set the contrast to max.
 - Adjust VR701 to the luminance at $103 \pm 17 \text{ cd/m}^2$.

4. Focus Adjustment:

- Set mode 1 640i/480 Fh: 31.5KHz with character full page.
- Adjust brightness to center and contrast to max.
- Then adjust focus VR1 to a fine vertical line.
- Adjust focus VR2 to a fine horizontal line.
- Repeat step C & D.

5. Purity Adjustment

- Be sure that the display is not being exposed to any external magnetic fields.
- Ensure that the spacing between the Purity, Convergence, Magnet, (PCM), assembly and the CRT stem is 29mm. (See below diagram)
- Produce a complete, red pattern on the display. Adjust the purity magnet rings on the PCM assembly to obtain a complete field of the color red. This is done by moving the two tabs in such a manner that they advance in an opposite direction but at the same time to obtain the same angle between the two tabs, which should be approximately 180° .
- Check the complete blue and complete green patterns to observe their respective color purity. Make minor adjustments if needed.

RELATIVE PLACEMENT OF TYPICAL COMPONENTS**6. Convergence adjustment**

- A. Produce a magenta crosshatch on the display.
- B. Adjust the focus for the best overall focus on the display.
Also adjust the brightness to the desired condition.
- C. Vertical red and blue lines are converged by varying the angle between the two tabs of the 4 pole magnets on the PCM assembly. (See above diagrams)
- D. Horizontal red and blue lines are converged by varying the two tabs together, keeping the angle between them constant.
- E. Produce a white crosshatch pattern on the display.
- F. Vertical green and magenta lines are converged by varying the angle between the two tabs of the 6-pole magnets.
- G. Horizontal green and magenta lines are converged by varying the two tabs together, keeping the angle between them constant.

5. CIRCUIT DESCRIPTION

5-1 MICRO CONTROLLER CIRCUIT

MICRO Controller

The IC101 contains a 6502 8-bit CPU core, 512 bytes of RAM, 16K bytes of ROM, 14 channel 8 bit PWM D/A converters, 2 channel A/D converters for key detection, one 8 bit pre-loadable base timer, internal H-sync and V-sync signals processor providing mode detection, watch-dog timer preventing system from abnormal operation, and an I²C bus interface.

H/V sync signals processor

The functions of the sync processor include polarity detection, H-SYNC & V-SYNC signals counting, Programmable SYNC signals output, free running signal generator. Pin39/Pin40 are for the H-SYNC and V-SYNC input, Pin32/Pin33 will output the same signal as input sync signal without delay, and the polarity are setting in the positive. When no signal input, the Pin32 will output a 61Hz V-SYNC free run signal. The Pin33 will output a 62.5KHz H-SYNC free run signal. for the monitor testing use.

On Screen Display Controller

The IC105 is designed for display the built-in characters or fonts onto monitor screen. The display operation is by transforming data and control information from micro controller to RAM through a serial data interface.

Pin2 is used to control the internal oscillator frequency by DC voltage input from external low pass filter (R154, C166, R155) and filter (R175, C167) is used to regulate the appropriate bias current for internal oscillator the resonate at specific dot frequency.

Pin5 is input the horizontal fly back pulse, for PLL generator tracking.

Pin6 is left floating, I²C bus is enabled. Otherwise the SPI bus is enabled.

Pin7 the external data transfer through this pin to internal display registers and control registers

Pin8 the clock-input pin is used to synchronize the data transfer.

Pin10 is input the vertical flyback pulse for synchronizing the vertical position.

Pin12 is output a blanking signal to cut off external R.G.B signals of VGA while this chip is displaying characters or windows.

Pin13, Pin14, Pin15 is used to output the OSD (B.G.R) video signal.

5-2 DEFLECTION CIRCUIT

The deflection circuit is achieved by a high performance and efficient solution IC 401 (TDA9111) for this monitor. The concept is fully DC controllable and can be used in applications with a micro-controller solutions.

The TDA9111 provides sync. Processing with full auto sync. Capability, a flexible SMPS block and an extensive set of geometry control facilities. Further the IC generates the drive waveforms for DC coupled vertical boosters to the TDA9302H.

Horizontal Oscillator

The oscillator is of the relaxation type and requires a capacitor of 1nF C447 at pin5. The free running frequency is determined by a resistor R410 4.7K from pin6 to ground.

PLL 1 Phase Detector

The phase detector is a standard one using switched current sources. It compares the middle of H-sync. with a fixed point on the oscillator saw-tooth voltage. The PLL loop filter C435, C437, R411, D403 is connected to Pin7.

PLL2 Phase Detector

This phase detector is similar to the PLL1 detector and compares the line flyback pulse at pin 12 with the oscillator saw-tooth voltage. The PLL2 detector thus compensates for the delay in the external H-deflection circuit by adjusting the phase of the HDRV output pulses. The phase between H-flyback and H-sync can be controlled at pin4.

X-ray Protection

The X-ray protection input pin25 provides a voltage detector with a precise threshold. If the voltage exceeds this threshold for a certain time, an internal latch switches the whole IC into protection mode. In this mode several pins are forced into defined states:

Pin28 (BDRV) is floating

Pin26 (HDRV) is floating

Pin21, 23 (VOUT 1, 2) are floating

Vertical Oscillator

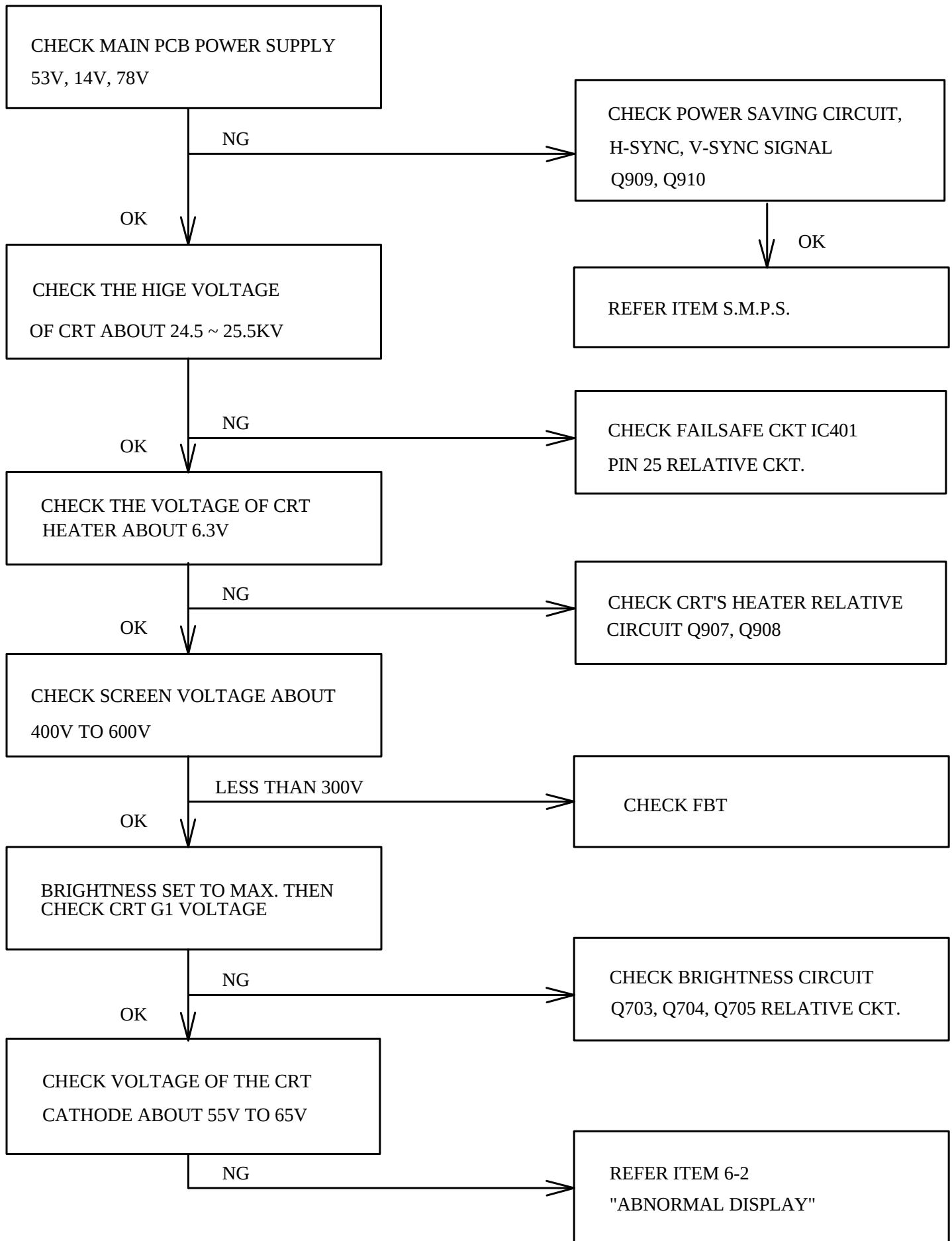
The vertical free running frequency is determined by the resistor C613, C616, R616 at pin22. Usually the free-running frequency should be lower than the minimum trigger frequency.

5-3 TRANSISTOR & DIODE CIRCUIT

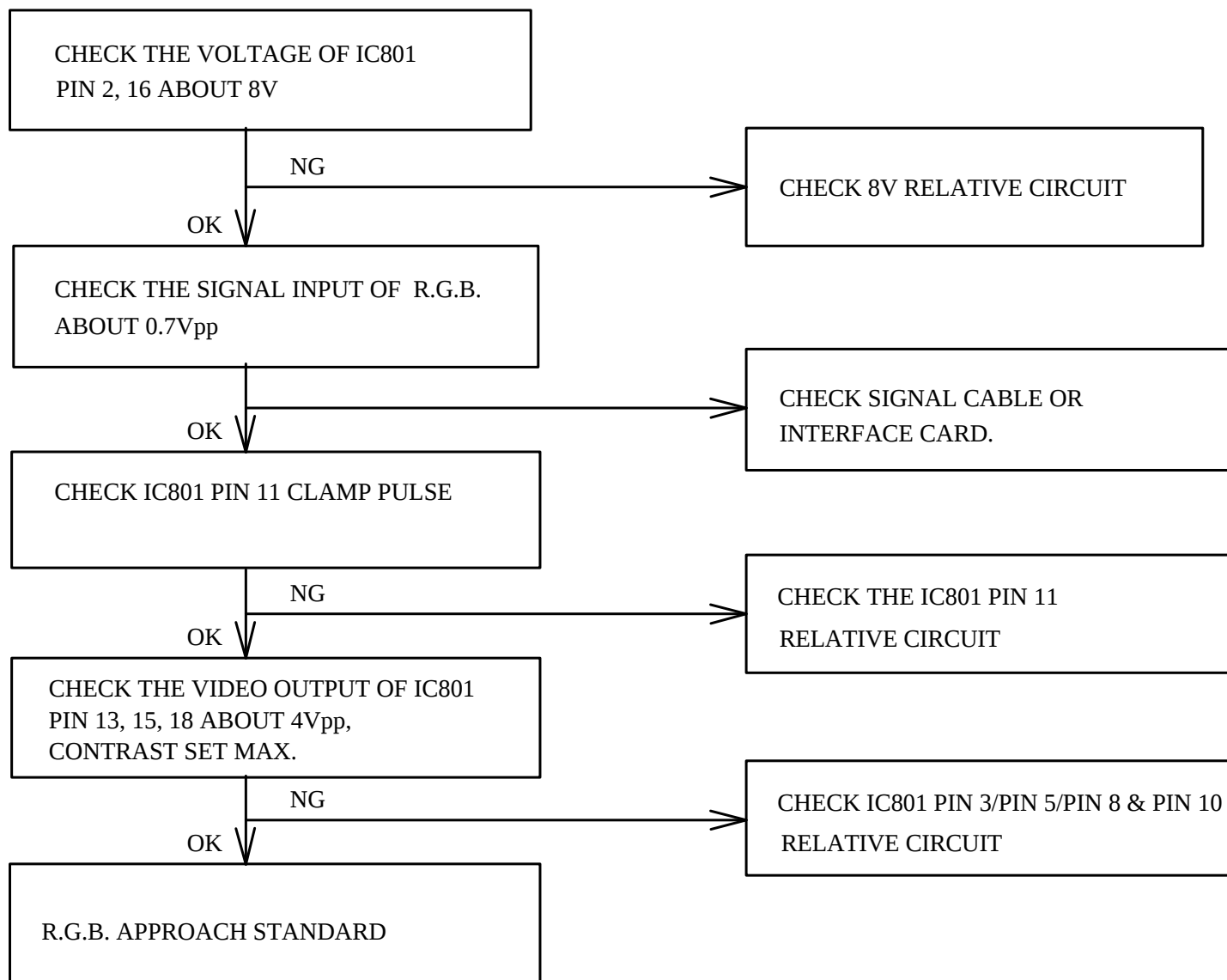
LOCATION	CIRCUIT FUNCTION DESCRIPTION
D901 ~ D904	Bridge Rectifier for AC Source
D910	Clamp Diode for Snubber CKT
D918, D919	Rectifier for Output Voltage
D922	Rectifier for Output Voltage
D923	Rectifier for Output Voltage
D925	Rectifier for B+ Supply
D929	B+ Feed Back Rectifier from F.B.T Pulse
Q901	MOS FET for Switching Power Control.
Q907, Q908	Use for Off-Mode to Cut-off 6.3V Supply Voltage
Q909, Q910	Use for Standy-By or Suspend Mode to Cut-off 14V Supply Voltage
Q912, Q920	Push-Pull Topology to Drive Q911
Q913	Degaussing Switcher Transistor
Q921	5V Regulator Transistor
Q401	Turn-on at Power ON/OFF and Change Mode to Protect Hor.Block
Q402	HOR. Driver Transistor
Q407, Q408	As a Switcher for Horizontal S Correction CKT
Q426	Horizontal s correction control MOSFET
Q404, Q405	As Differential Amp. to Drive Q406
Q406	Transistor for H-Size Control
Q703	As a Switcher to Mute Screen
Q704, Q705	Brightness Control CKT
Q601	Blanking Signal output transistor
Q740 ~ Q742	V-Dynamic focus CKT
Q821 ~ Q823, Q830 ~ Q832	Video DC Restoration control transistor

6.TROUBLE SHOOTING CHART

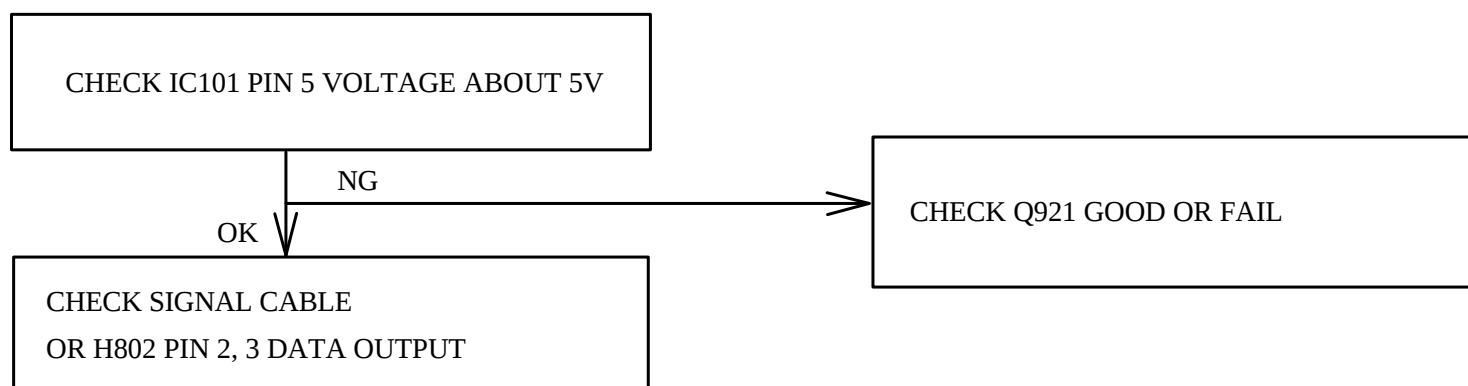
6-1 NO RASTER, CRT RELATIVE CIRCUIT PROBLEMS



2.ABNORMAL VIDEO LEVEL ON SCREEN

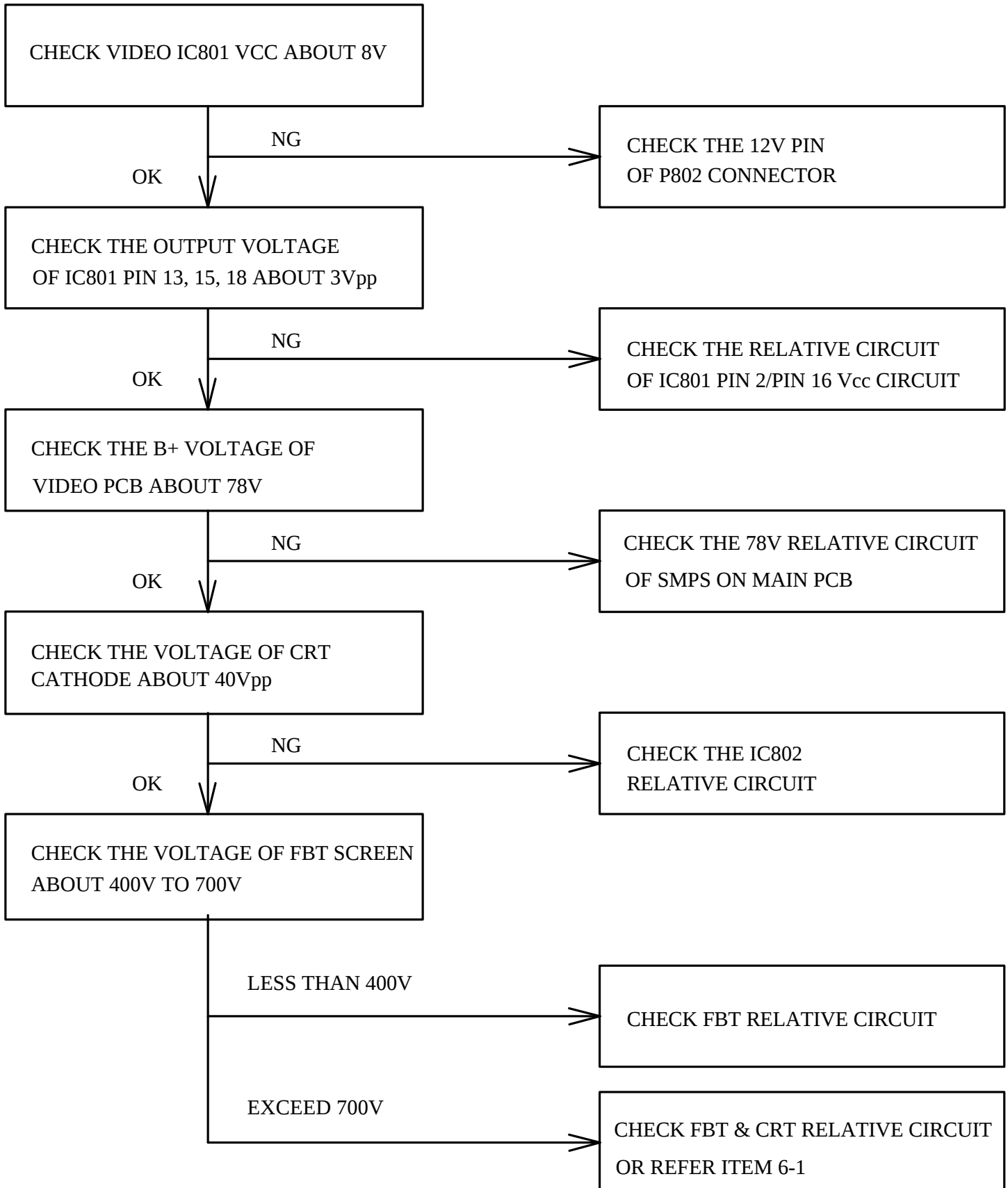


3. ABNORMAL DDC (PLUG & PLAY)

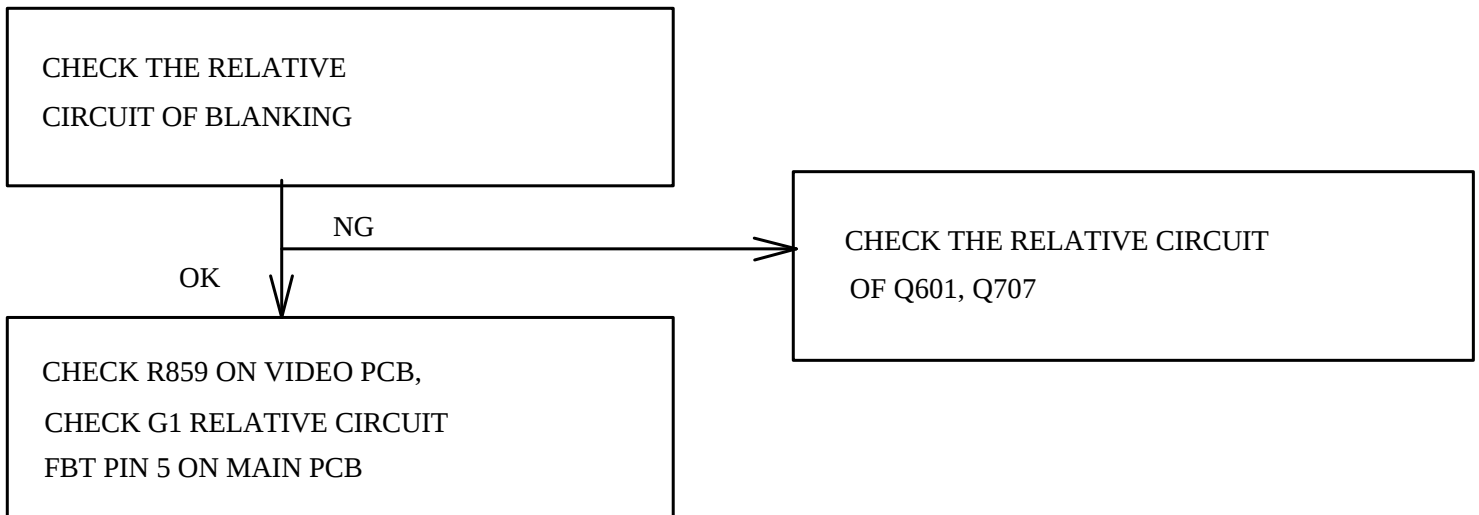


6-2 ABNORMAL DISPLAY

1.NO SIGNAL ON SCREEN

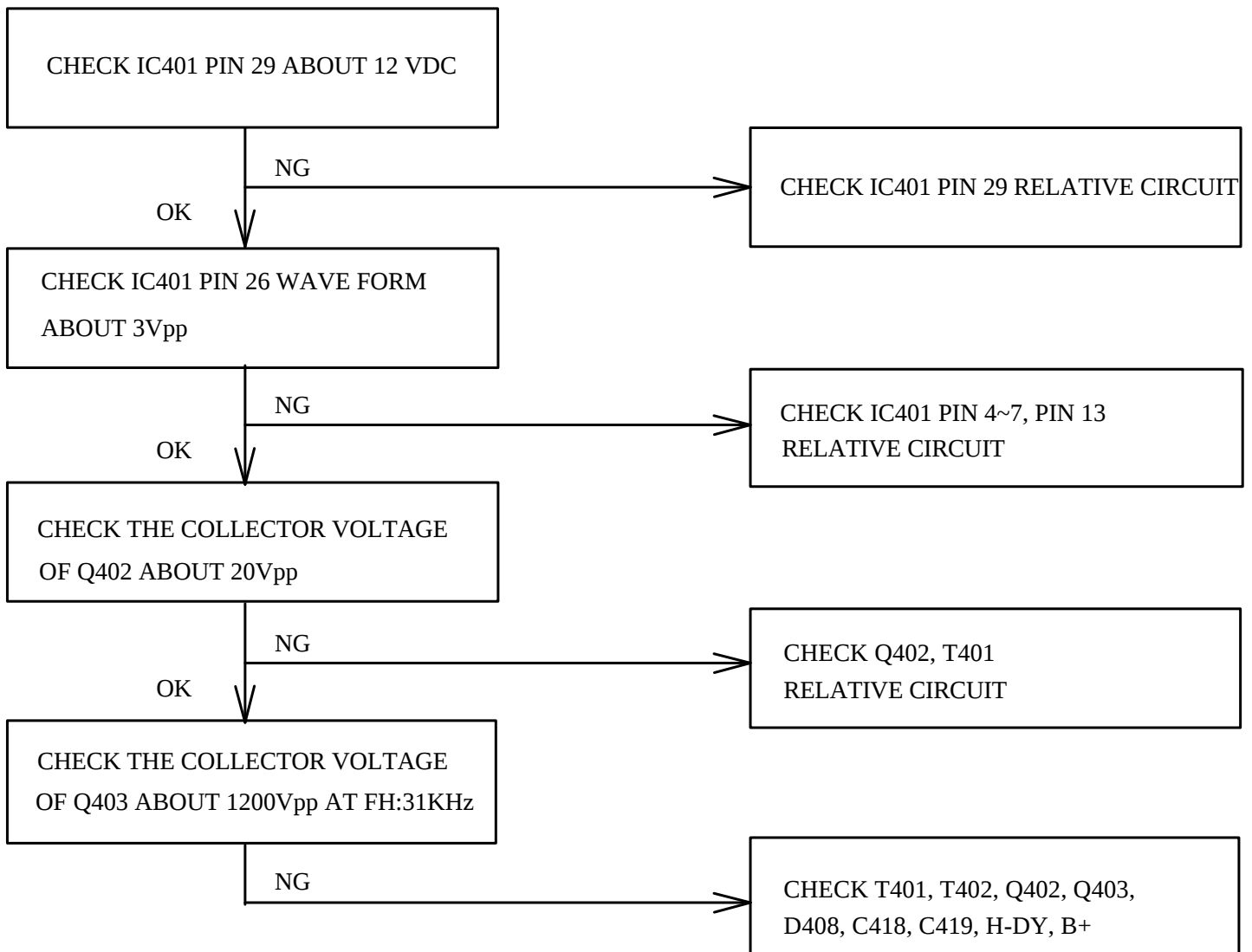


6-3 NO BLANKING



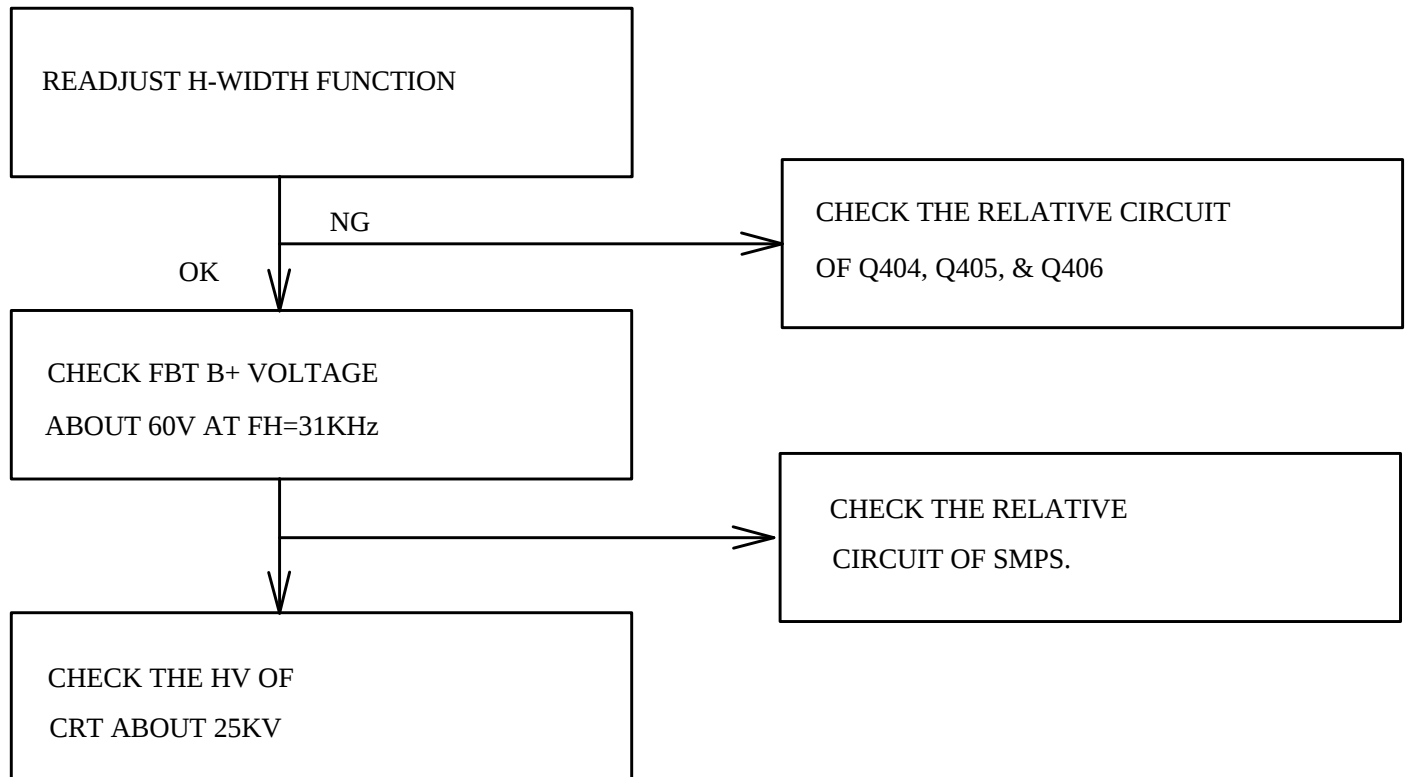
6-4 HOR./OSC/DEF/HV CIRCUIT FAULT

1. NO RASTER (DISCONNECT WITH SIGNAL CABLE)

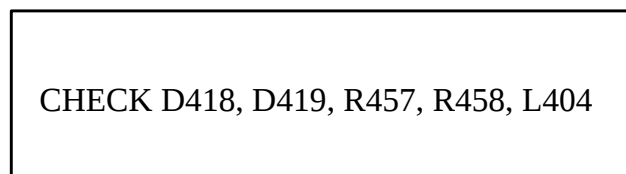


6-5 ABNORMAL HORIZONTAL DEFLECTION

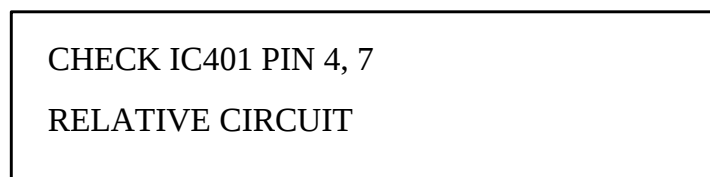
1. ABNORMAL HORIZONTAL WIDTH OF VIDEO



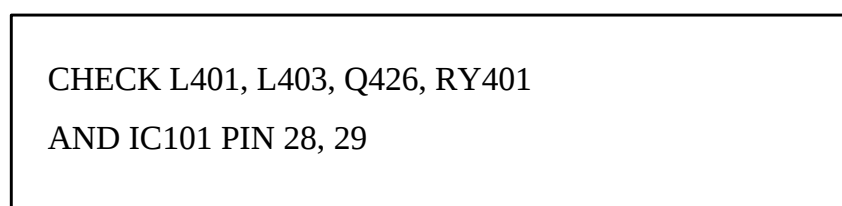
2. ABNORMAL HORIZONTAL RASTER CENTER



3. ABNORMAL HORIZONTAL VIDEO CENTER

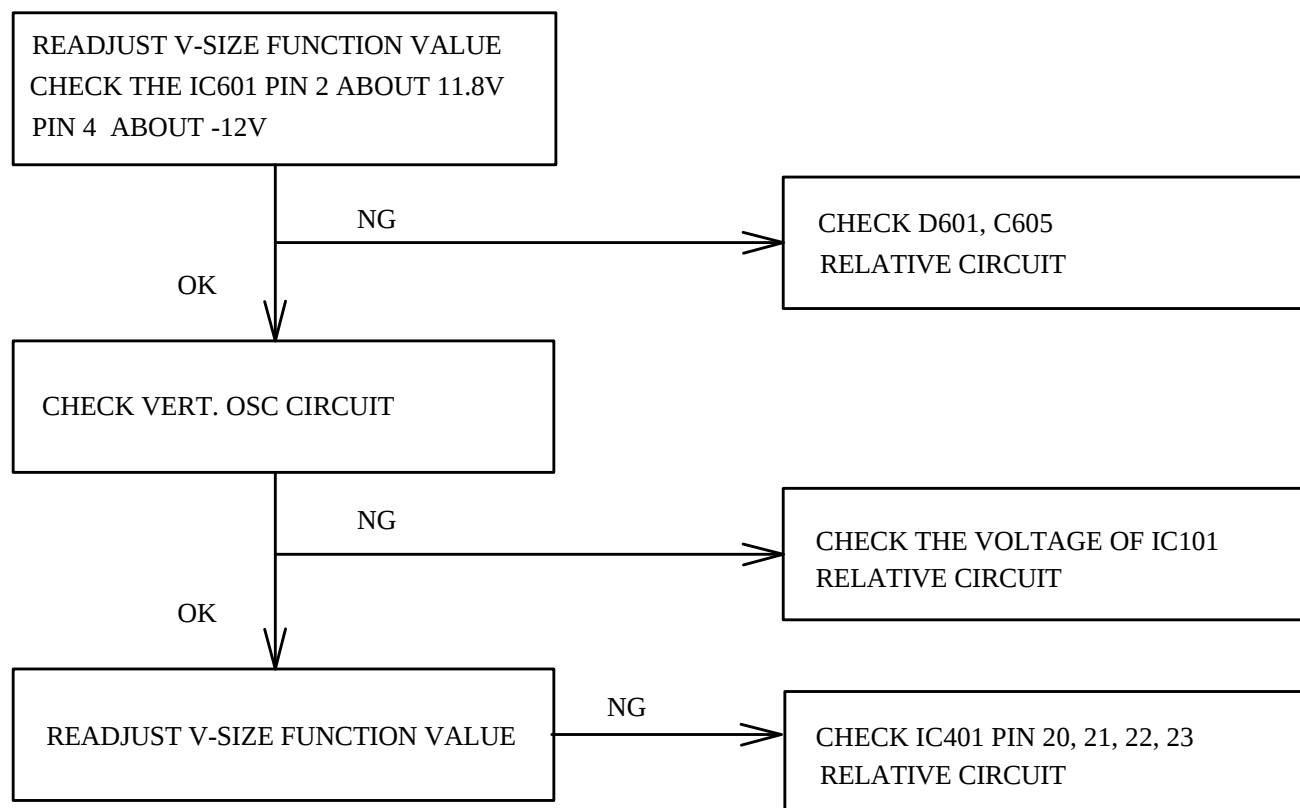


4. ABNORMAL HORIZONTAL LINEARITY

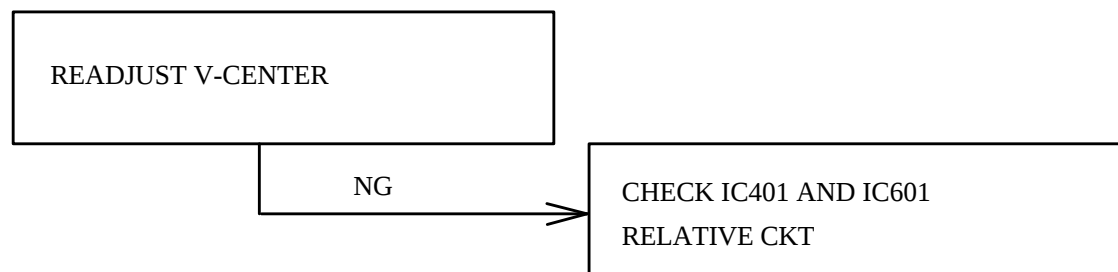


6-6 ABNORMAL VERTICAL SCANNING

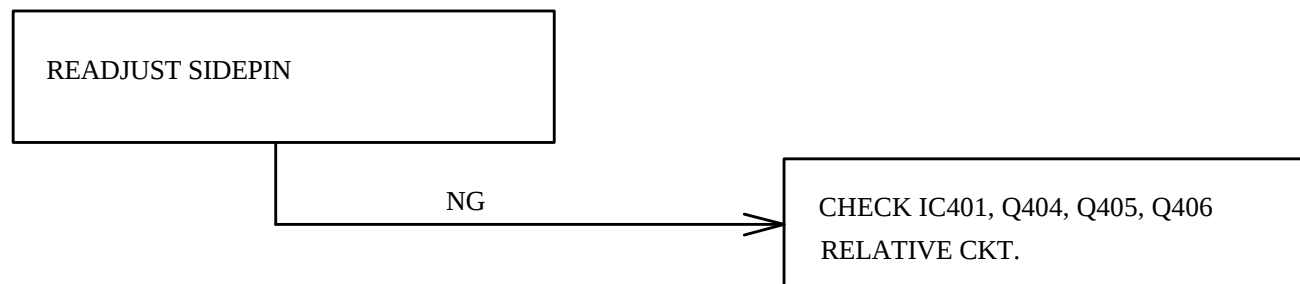
1. ABNORMAL VERTICAL SIZE



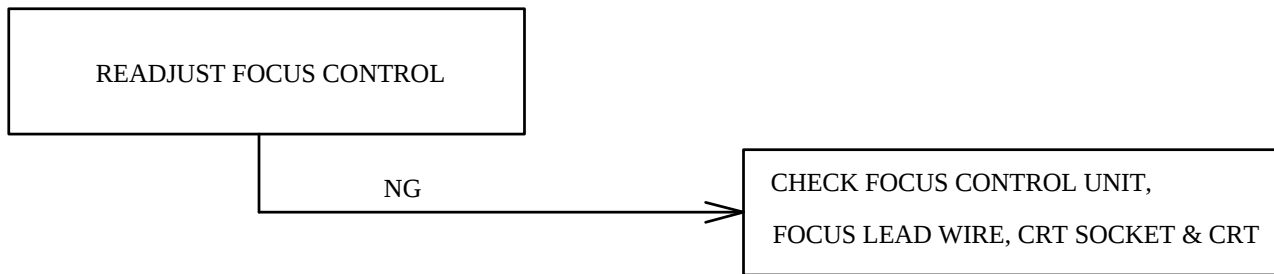
2. VERTICAL CENTER



6-7 SIDE-PIN CUSHION DISTORTION

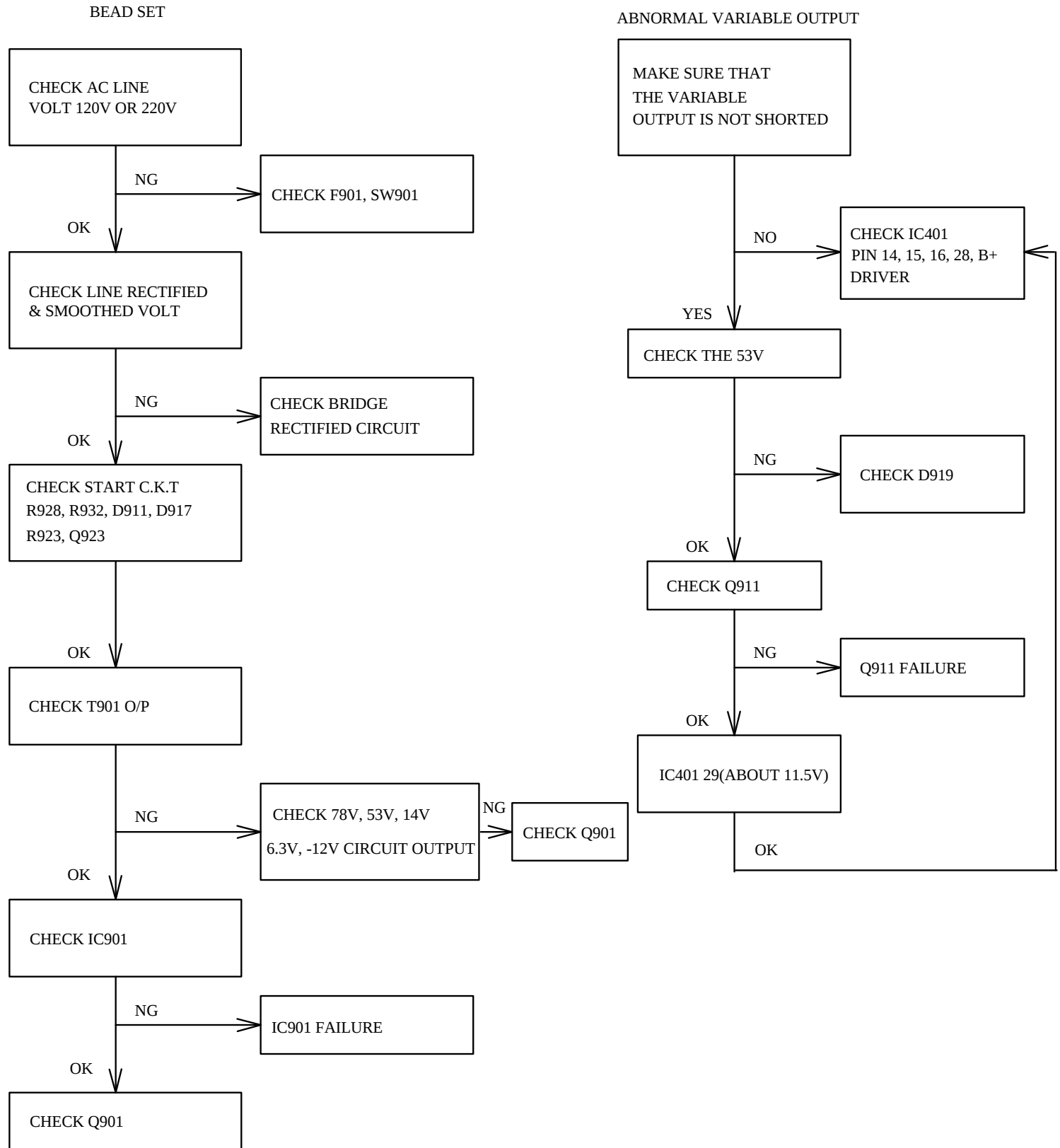


6-8 POOR FOCUS

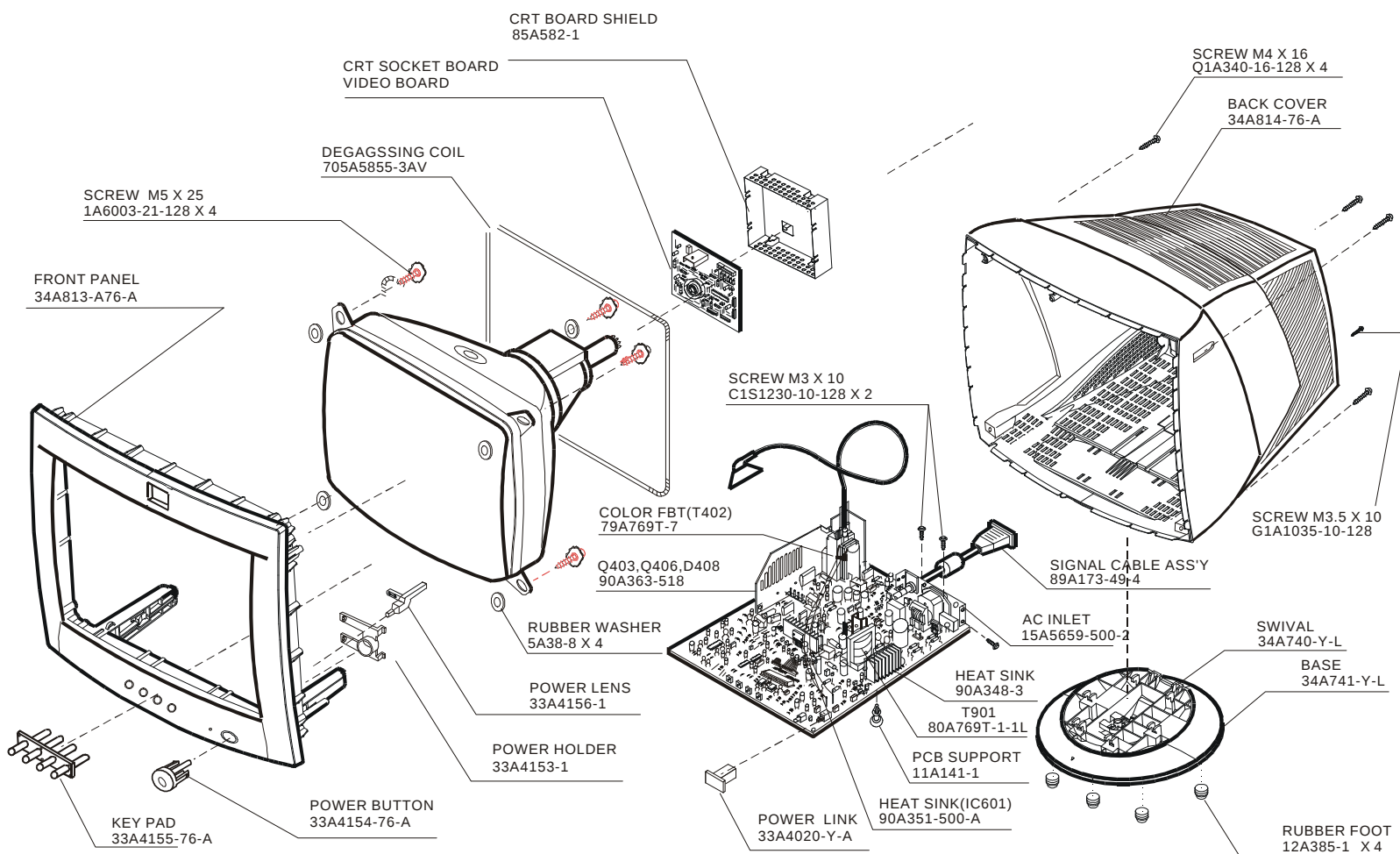


6-9 POWER SUPPLY TROUBLE SHOOTING CHART

BEFORE CHECK SW.REG. PLEASE REFER TO THE POWER SUPPLY BLOCK DIAGRAM
 POWER SUPPLY OUTPUT: (A) VARIABLE OUTPUT : 60.5V - 145V
 (DEPENDING EPENDING UPON H.SYNC FREQUENCY)
 (B) CONSTANT OUTPUT : 6.3V, 14.5V, -12V, 80V



7. MECHANICAL OF CABINET FRONT DIS-ASSEMBLY



PARTS LIST OF CABINET

LOCATION	D8905A (LOW RADIATION 220V) CM761VSNHP				SPECIFICATION CHAS ASS _i Y
	1A	6003-	21 -	128	CRT SCREW
	5A	38-	8		RUBBER WASHER
	11A	112-	500		WIRE MOUNT
	11A	115-	1		FBT CLIP
	12A	385-	1		RUBBER FOOT
	19A	403-	7		STEEL
	19A	506-	2		STEEL WIRE SPRING
	23A	3178-	690 -	1A	LOGO
	33A	3663-	1		SUPPORT
	33A	4020-	Y -	A	S.W.CAP
	33A	4153-	76 -	T	POWER HOLDER
	33A	4154-	76 -	T	POWER KNOB
	33A	4155-	76 -	T	KEY PAD
	33A	4156-	1		LED LENS
	34A	813-	A76 -	T	FRONT PANEL
	34A	814-	76 -	T	REAR CABINET
	34A	818-	76 -	B	SWIVEL
	34A	819-	76 -	B	BASE
	40A	152-	509		RECYCLE LABEL
	40A	152-	512		RECYCLE LABEL
	40A	153-	513		CRT WARNNG LABEL
	40A	154-	501 -	1	HI-POT GND LABEL
	40A	155-	185		ID LABEL
	40A	581-	26 -	704	LABEL
	40A	581-	625 -	2A	PALLET LABEL
	40A	581-	690 -	1A	CARTON LABEL
	41A	68-	508 -	A	CARD
	41A	68-	615 -	4B	TCO _i '99 CARD
	41A	68-	690 -	6A	SETTING UP GUIDE
	41A	68-	690 -	21A	WARRANTY STATEMENTS
	41A	68-	690 -	25A	DOC FLYER
	41A	578-	690 -	1A	MANUAL
	44A	6754-	1		EPS CUSHION
	44A	6754-	2		EPS CUSHION
	44A	6754-	690 -	2A	CARTON
	45A	76-	28 -	HP	HP MANUAL PE BAG
	45A	76-	520		PE BAG
	45A	76-	521		PE BAG
	45A	77-	3		TRANSPARENT SHEET
	45A	77-	500		BARCODE RIBBON
	45A	77-	501		BARCODE RIBBON
	85A	582-	1		SHIELD
	89A	404E-	18N -	IS	POWER CORD UL/CSA
	95A	91-	205 -	615	WIRE HARNESS



H701

95A	8013-	2		CONNECTOR
B1A	1035-	10 -	128	SCREW
Q1A	340-	16 -	128	SCREW
Q1A	1030-	10 -	128	SCREW
705A	769N-	F34 -	01N	CABINET ASSY
750A	1697-	504 -	JA	DEG. COIL UL/CSA
750A	5868-	3AV		17" LG .27 S-ART CRT
750A	1697-	503 -	NA	ROTATION COIL

PARTS LIST OF CHAS

LOCATION	D8905A AIM761VSNHP CR761VSNHP				SPECIFICATION MAIN BOARD ASS'Y CRT BOARD ASS'Y
	1A	421-	4 -	128	SCREW
	11A	141-	500		PCB SUPPCRT
	15A	5640-	1 -	A	AL GND LUG
	15A	5659-	501		AC BRACKET
	40A	581-	26 -	702	FAIL-SAFE LABEL
	40A	581-	624 -	2A	CHASSIS LABEL
	50A	500-	1		CABLE TIE
	55A	1-	4		SOLDER BAR
	71A	100-	8 -	H	FERRITE BEAD
	84A	33-	10		FUSE CLIP
	89A	174F-	5DB -	GLB	POWER CORD
	96A	29-	6 -	190	H.S TUBING
	B1A	1040-	10 -	128	SCREW
	D1A	1140-	7 -	128	SCREW
	M1A	1140-	6 -	128	SCREW
	705A	560L-	C56 -	02	IC601 ASS'Y
	705A	761U-	C57 -	01	Q403/Q406/D408 ASS'Y
	705A	761U-	C57 -	02	Q901 ASS'Y
	705A	761U-	C57 -	04	Q911 ASS'Y
	705A	761U-	C57 -	01A	Q426 ASS'Y
	705A	761U-	C61 -	01	NR901 ASS'Y
	705A	761U-	C87 -	01	AC SOCKET ASS'Y
	705A	761U-	C93 -	01	D919 ASS'Y
	705A	761V-	C56 -	HP1	IC101 ASS'Y
	705A	761V-	C56 -	HP2	IC101 ASS'Y
	750A	5866-	761 -	HPV	17 ₁ " LG MPRII
	750A	5868-	761 -	HPV	17 ₁ " LG TCO
(GND2)	95A	205-	30 -	082	WIRE
<SW101>	77A	602-	1 -	CJ	TACT SWITCH
<SW102>	77A	602-	1 -	CJ	TACT SWITCH
<SW103>	77A	602-	1 -	CJ	TACT SWITCH
<SW104>	77A	602-	1 -	CJ	TACT SWITCH
AS1	95A	205B-	30 -	06A	WIRE
B-B	95A	201-	69 -	021	WIRE
C-C	95A	201-	69 -	022	WIRE
C1	65A	450-	104 -	7T	0.1UF +80-20% 50V
C2	65A	450-	104 -	7T	0.1UF +80-20% 50V
C400	67A	305-	478 -	12	0.47UF 250V
C405	67A	309-	471 -	3T	470UF 16V +-20%
C414	67A	215-	470 -	9H	47UF 100V
C416	63A	210J-	474 -	2CC	0.47UF 250V
C418	63A	210J-	622 -	7FC	6.2NF +-5% 1.6KV
C419	63A	210J-	432 -	5CC	4.3NF 1KV +-5%
C422	64A	100J-	225 -	59	2.2uF 100V
C425	63A	210J-	434 -	3CC	0.43UF 400V
C426	63A	210J-	274 -	2CC	0.27UF 250V +-5%

C427	63A	210J-	644 -	2CC	0.64UF 250V
C431	64A	210J-	104 -	2BC	0.1uF 250V
C432	67A	215-	470 -	11J	47UF 200V
C439	63A	210J-	394 -	2CC	0.39UF 250V +-5%
C488	65A	2K-	471 -	2A	470PF 2KV
C489	62A	10-	16 -	W	SPARK GAP 1KV
C606	67A	309-	471 -	3	470UF 16V +-20%
C709	65A	1K-	151 -	6A	150PF 1KV
C713	67A	305-	229 -	12	2.2uF +-20% 250V
C720	65A	1K-	102 -	5T	1NF 1KV +-10%
C740	67A	305-	109 -	15	1UF 450V
C900	65A	305M-	472 -	2B2	4700PF +-20% 400VAC



C901	63A	108K-	334 -	CS	0.33UF
C902	63A	107-	224 -	5	0.22Uf 250V
C907	65A	30-	221 -	14D	220UF 400V

LOCATION	D8905A				SPECIFICATION
C915	65A	2M-	103 -	3B	0.01uF 2KV 20%
C929	67A	305-	100 -	12	10UF 250V +-20%
C931	67A	215-	391 -	GFJ	390Uf 80V
C936	67A	305-	102 -	4	1000uF +-20% 25V
C937	67A	309-	222 -	3	2200UF 16V +-20%
C939	67A	305-	102 -	3	1000uF +-20% 16V
C942	67A	309-	471 -	3	470UF 16V +-20%
C951	67A	215-	470 -	11J	47Uf 200V
C963	65A	305M-	472 -	2B2	4700PF +-20% 400VAC
C964	65A	305M-	472 -	2B2	4700PF +-20% 400VAC
CN902	33A	3074-	1		2P PLUG
CN903	33A	3278-	2		2P PLUG
D-D	95A	201-	69 -	022	WIRE
F901	84A	7H-	315 -	SL	FUSE 250V 3.15A
D901	93A	52-	55W -	52T	RECTIFIER DIODE IN5408
					
D902	93A	52-	55W -	52T	RECTIFIER DIODE IN5408
D903	93A	52-	55W -	52T	RECTIFIER DIODE IN5408
D904	93A	52-	55W -	52T	RECTIFIER DIODE IN5408
D922	93A	3020-	6C -	52T	FAST RECOVERY DIODE
D923	93A	3020-	8		RG-4Z-LF-L1
D925	93A	3020-	6C -	52T	FAST RECOVERY DIODE
DF925	71A	55-	2		FERRITE BEAD
H802	95A	8013-	10 -	502	WIRE
H803	95A	8013-	6 -	1	WIRE
H804A	95A	8013-	11 -	501	5-11PIN
					
H804B	95A	8013-	11 -	501	5-11PIN
IC104	56A	74LS-	14 -	H	14 PIN IC 74LS14
IC901	56A	379-	12		8 PIN IC UC3842AM
IC401	56A	573-	1		TDA9111
L400	73A	253-	111 -	T	CHOKE COIL
L401	73A	147-	117 -	L	LINEARITY
L403	73A	253-	118 -	L	CHOKE
L404	73A	253-	70 -	G	1.5MH +-10% 0.4A
					
L405	73A	253-	68 -	H	180UH +-10%
L901	73A	174-	2 -	SA	FILTER
L902	73A	174-	17 -	H	LINE FILTER
L903	73A	259-	4		200UH +-5%
L906	73A	253-	88 -	L	CHOKE
LED2	81A	10-	6 -	BH	LED/HOLDER
P402	33A	3192-	4		4P PLUG
P403	33A	8009-	3		3P PLUG
P601	33A	3278-	4		4P PLUG
PR901	61A	52-	27 -	4G	PTCR 9 OHM
Q428	57A	600-	503		IRF630A

Q907	57A	728-	1		2SB772 Q
Q909	57A	728-	1		2SB772 Q
Q923	57A	498-	1 -	T	TRAN BF423
R1	61A	602-	103 -	52T	10K OHM +-5% 1/6W
R400	61A	152M-	151 -	64	150 OHM +-5% 2W
R426	61A	153M-	220 -	59	22 OHM +-5% 3W
R428	61A	153M-	828 -	59	0.82 OHM +-5% 3W
R455	61A	152M-	220 -	64	22 OHM +-5% 2W
R456	61A	153M-	331 -	59	330 OHM +-5% 3W
R457	61A	153M-	560 -	59	56 OHM +-5% 3W
R458	61A	153M-	560 -	59	56 OHM +-5% 3W
R608	61A	152M-	479 -	64	4.7 OHM +-5% 2W
R723	61A	152M-	101 -	64	100 OHM +-5% 2W
R907	61A	208-	471 -	64	470 OHM 5% 1W
R927	61A	153M-	333 -	59	33K OHM +-5% 3W
R929	61A	152M-	278 -	64	0.27 OHM +-5% 2W
R936	61A	303-	228 -	64	0.22 OHM 5% 1W
R989	61A	152M-	471 -	64	470 OHM +-5% 2W
R991	61A	153M-	560 -	59	56 OHM +-5% 3W

LOCATION	D8905A				SPECIFICATION
RA101	61A	124-	472 -	7	7 PIN 4.7K OHM
RY401	77A	260-	9 -	1B	RELAY
RY402	77A	260-	9 -	1B	RELAY
					
RY901	77A	260-	5 -	1	RELAY DC12V G5PA-2
T401	79A	167-	110 -	H	DRIVER X _i FMR
T901	80A	761-	1 -	L	POWER X'FMR
SW101	77A	411A-	2 -	S	PUSH SWITCH
T402	79A	761-	2 -	A	FBT
T403	79A	167-	112 -	LA	DRIVER X'FMR
TP701	9A	211-	2		PIN
TP901	9A	211-	2		PIN
TP902	9A	211-	2		PIN
VR701	75A	335-	223		22K OHM +-20%
VR702	75A	335M-	204		200K OHM
VR902	75A	335-	203		20K OHM +-20%
VR903	75A	335-	101		100 OHM +-20%

PARTS LIST OF MAIN PC BOARD

LOCATION	D8905A				SPECIFICATION
	715A	794-	1		MAIN BOARD
	6A	31-	4		BRASS
	95A	90-	23		TIN COATED
C101	67A	309-	220 -	7T	22uF +-20% 50V
C103	65A	450-	104 -	7T	0.1uF +80-20% Y5V 50V
C104	67A	309-	101 -	4T	100uF +-20% 25V
C105	65A	450-	104 -	7T	0.1uF +80-20% Y5V 50V
C106	67A	309-	330 -	7T	33UF +-20% 50V
C109	67A	60-	229 -	7T	2.2UF 50V
C110	67A	309-	109 -	7T	1.0uF +-20% 50V
C111	65A	444-	101 -	5T	100PF +-10% Y5P 50V
C112	65A	444-	101 -	5T	100PF +-10% Y5P 50V
C113	65A	444-	101 -	5T	100PF +-10% Y5P 50V
C114	65A	444-	101 -	5T	100PF +-10% Y5P 50V
C130	65A	442-	470 -	13T	47PF +-5% 50V NPO
C140	67A	305-	100 -	7T	10uF +-20% 50V
C141	67A	305-	100 -	7T	10uF +-20% 50V
C142	67A	305-	100 -	7T	10uF +-20% 50V
C143	67A	305-	100 -	7T	10uF +-20% 50V
C144	67A	305-	100 -	7T	10uF +-20% 50V
C145	67A	305-	100 -	7T	10uF +-20% 50V
C146	67A	305-	100 -	7T	10uF +-20% 50V
C150	67A	309-	101 -	3T	100UF +-20% 16V
C151	67A	305-	101 -	3T	100UF +-20% 16V
C160	65A	444-	101 -	5T	100PF +-10% 50V

C161	65A	442-	471 -	9T	470PF 50V
C162	65A	444-	102 -	13T	1000PF +-10% Y5V 50V
C163	65A	444-	101 -	5T	100PF +-10% 50V
C164	65A	450-	104 -	7T	0.1Uf +80-20% Y5V 50V
C166	64A	176J-	103 -	1T	0.01UF +-5% 100V
C167	64A	700J-	104 -	0AT	0.1UF 50V +-5%
C168	65A	450-	104 -	7T	0.1Uf +80-20% Y5V 50V
C169	67A	305-	101 -	3T	100UF +-20% 16V
C170	65A	442-	121 -	13T	120PF 50V NPO +-5%
C171	67A	305-	100 -	7T	10uF +-20% 50V
C172	65A	444-	102 -	13T	1000PF +-10% Y5P 50V
C401	65A	442-	120 -	13T	12PF 50V NPO
C403	64A	44J-	223 -	1AT	22NF 100V
C406	65A	450-	104 -	7T	0.1Uf +80-20% Y5V 50V
C407	65A	444-	101 -	5T	100PF +-10% 50V

LOCATION	D8905A				SPECIFICATION
C408	65A	444-	101 -	5T	100PF +-10% 50V
C410	65A	450-	104 -	7T	0.1Uf +80-20% Y5V 50V
C411	67A	309-	470 -	3T	47uF 16V +-20%
C412	65A	444-	331 -	5T	330PF +-10% 50V Y5P
C413	65A	450-	104 -	7T	0.1Uf +80-20% Y5V 50V
C415	64A	44J-	472 -	1AT	4700PF 100V
C417	64A	176J-	154 -	0T	0.15UF +-5% 63V/50V
C421	65A	1K-	472 -	3T	4700PF 1KV
C429	65A	444-	332 -	5T	3300PF +-10% Y5P 50V
C430	65A	517K-	152 -	1T	1500UF 500V
C433	67A	309-	109 -	7T	1uF +-20% 50V
C434	67A	309-	479 -	7T	4.7UF +-20% 50V
C435	64A	44J-	103 -	1AT	0.01UF +-5% 100V
C437	67A	309-	100 -	7T	10UF +-20% 50V
C441	64A	701J-	224 -	0AT	0.22uF +-5% 50V
C443	67A	309-	470 -	3T	47UF +-20% 16V
C444	65A	450-	104 -	7T	0.1uF +80-20% Y5V 50V
C446	65A	444-	101 -	5T	100PF +-10% 50V
C447	65A	45G-	102 -	1AT	0.01UF +-2% 100V
C449	65A	442-	561 -	9T	560PF 50V
C460	65A	450-	473 -	4T	47000PF +80-20% 50V
C462	67A	309-	101 -	3T	100uF +-20% 16V
C463	64A	44J-	103 -	1AT	0.01UF +-5% 100V
C464	65A	444-	821 -	5T	820PF +-10% 50V
C466	64A	176J-	822 -	1T	8200PF +-5% 100V
C467	65A	450-	103 -	7T	10000uF +80-20% Y5V 50V
C470	65A	444-	332 -	5T	3300PF +-10% 50V
C481	65A	450-	104 -	7T	0.1uF +80-20% Y5V 50V
C601	64A	176J-	104 -	1T	0.1UF +-5% 100V
C602	65A	444-	331 -	5T	330PF +-10% 50V
C603	67A	309-	471 -	3T	470UF +-20% 16V
C604	64A	176J-	224 -	0T	0.22UF 63V +-5%
C605	67A	309-	470 -	7T	47UF +-20% 50V
C610	64A	701J-	474 -	0AT	0.47UF +-5% 50V
C611	64A	176J-	104 -	0T	0.1uF +-5% 63V
C612	67A	309-	470 -	3T	47UF +-20% 16V
C613	64A	701J-	104 -	0AT	0.1UF 50V
C614	65A	444-	101 -	5T	100PF +-10% 50V
C615	64A	44J-	103 -	1AT	0.01UF +-5% 100V
C616	64A	701J-	104 -	0AT	0.1UF 50V
C705	67A	309-	220 -	7T	22uF +-20% 50V
C707	63A	212J-	223 -	2AT	22NF 250V +-5%
C710	63A	212J-	224 -	2AT	220NF 250V +-5%
C733	64A	176J-	824 -	1T	0.82UF +-5% 100V
C735	67A	60-	229 -	7T	2.2UF 50V
C741	65A	444-	331 -	5T	330PF +-10% 50V
C742	65A	444-	471 -	5T	470PF +-10% 50V
C743	67A	309-	100 -	7T	10UF +-20% 50V
C750	65A	450-	104 -	7T	0.1uF +80-20% Y5V 50V

C760	67A	60-	229 -	7T	2.2UF 50V
C770	95A	90-	23		TIN COATED
C908	65A	450-	104 -	7T	0.1uF +80-20% Y5V 50V
C916	67A	305-	101 -	4T	100uF +-20% 25V
C918	64A	44J-	332 -	1AT	3300PF 100V
C920	64A	44J-	102 -	1AT	1000PF 100V
C921	64A	176J-	104 -	1T	0.1uF +-5% 100V
C922	64A	176J-	104 -	1T	0.1uF +-5% 100V
C923	65A	1K-	331 -	5T	330PF 1KV +-10%
C924	64A	176J-	332 -	1T	0.0033UF +-5% 100V
C925	67A	309-	100 -	7T	10uF +-20% 50V
C938	67A	305-	471 -	3T	470uF +-20% 16V
C941	64A	701J-	104 -	0AT	0.1uF 50V
C943	64A	44J-	152 -	1AT	1500PF 100V

LOCATION	D8905A				SPECIFICATION
					
C945	64A	176J-	104 -	1T	0.1uF +-5% 100V
C946	64A	176J-	223 -	2T	0.022uF 250V
C947	67A	309-	479 -	7T	4.7uF +-20% 50V
C950	65A	1K-	221 -	5T	220PF 1KV +-10%
C955	65A	1K-	101 -	5T	100PF 1KV +-10%
C958	67A	309-	101 -	3T	100uF +-20% 16V
C960	67A	309-	229 -	7T	2.2uF +-20% 50V
C961	64A	44J-	223 -	1AT	22NF 100V
C965	64A	176J-	103 -	1T	0.01uF +-5% 100V
C967	67A	309-	101 -	3T	100uF +-20% 16V
C990	67A	309-	109 -	7T	1uF +-20% 50V
D104	93A	64-	11 -	52T	DIODE IN4148
D105	93A	1002-	1F -	52T	1N5817
D106	93A	64-	11 -	52T	DIODE IN4148
D107	93A	64-	11 -	52T	DIODE IN4148
D130	93A	1002-	1F -	52T	1N5817
D401	93A	64-	11 -	52T	DIODE IN4148
D402	93A	64-	11 -	52T	DIODE IN4148
D405	93A	1002-	1W -	52T	RECTIFIER DIODE
D406	93A	1060-	6 -	52T	BYV26C
D407	93A	60-	21P -	52T	DIODE PS156R
D410	93A	64-	11 -	52T	DIODE IN4148
D411	93A	64-	19G -	52T	BAV21
D412	93A	64-	11 -	52T	DIODE IN4148
D418	93A	60-	21P -	52T	PS156R
D419	93A	60-	21P -	52T	PS156R
D432	93A	64-	11 -	52T	DIODE IN4148
D433	93A	64-	11 -	52T	DIODE IN4148
D450	93A	64-	11 -	52T	DIODE IN4148
D460	93A	64-	11 -	52T	DIODE IN4148
D463	93A	60-	26T -	52T	FR107
D470	93A	60-	26T -	52T	FR107
D471	93A	64-	11 -	52T	DIODE IN4148
D601	93A	52-	47T -	52T	DIODE 1N4004
D602	93A	64-	11 -	52T	DIODE 1N4148
D603	93A	64-	11 -	52T	DIODE 1N4148
D607	93A	64-	11 -	52T	DIODE 1N4148
D701	93A	64-	11 -	52T	DIODE 1N4148
D702	95A	90-	23		TIN COATED
D704	95A	90-	23		TIN COATED
D706	93A	60-	44T -	52T	FR157S
D710	95A	90-	23		TIN COATED
D721	95A	90-	23		TIN COATED
D735	93A	64-	11 -	52T	DIODE IN4148
D740	93A	1060-	6P -	52T	ER106
D741	93A	1060-	6P -	52T	ER106
D742	93A	64-	11 -	52T	DIODE IN4148

D910	93A	60-	21P -	52T	PS156R
D911	93A	1060-	6 -	52T	BYV26C
D912	93A	64-	11 -	52T	DIODE IN4148
D913	93A	64-	11 -	52T	DIODE IN4148
D914	93A	64-	11 -	52T	DIODE IN4148
D917	93A	64-	11 -	52T	DIODE IN4148
D918	93A	1060-	6 -	52T	BYV26C
D926	93A	64-	11 -	52T	DIODE IN4148
D927	93A	64-	11 -	52T	DIODE IN4148
D929	93A	1040-	2 -	52T	UF4004
D930	93A	1040-	2 -	52T	UF4004
D939	93A	64-	11 -	52T	DIODE IN4148
D967	93A	64-	11 -	52T	DIODE IN4148
D968	93A	64-	11 -	52T	DIODE IN4148
D990	93A	64-	11 -	52T	DIODE IN4148
D991	93A	64-	11 -	52T	DIODE IN4148

LOCATION	D8905A				SPECIFICATION
FB050	71A	55-	9 -	T	SHIELD BEAD
FB101	71A	55-	19 -	T	BEAD
FB401	71A	55-	9 -	T	SHIELD BEAD
FB402	71A	55-	19 -	T	BEAD
FB403	71A	55-	19 -	T	BEAD
FB405	71A	55-	19 -	T	BEAD
FB409	71A	55-	19 -	T	BEAD
FB903	71A	55-	19 -	T	BEAD
FB904	71A	55-	19 -	T	BEAD
FB905	71A	55-	9 -	T	SHIELD BEAD
FB906	71A	55-	9 -	T	SHIELD BEAD
FB907	71A	55-	19 -	T	BEAD
J003	95A	90-	23		TIN COATED
J004	95A	90-	23		TIN COATED
J005	95A	90-	23		TIN COATED
J007	95A	90-	23		TIN COATED
J008	95A	90-	23		TIN COATED
J009	95A	90-	23		TIN COATED
J010	95A	90-	23		TIN COATED
J011	95A	90-	23		TIN COATED
J012	95A	90-	23		TIN COATED
J014	95A	90-	23		TIN COATED
J015	95A	90-	23		TIN COATED
J016	95A	90-	23		TIN COATED
J017	95A	90-	23		TIN COATED
J018	95A	90-	23		TIN COATED
J019	95A	90-	23		TIN COATED
J022	95A	90-	23		TIN COATED
J023	95A	90-	23		TIN COATED
J024	95A	90-	23		TIN COATED
J026	95A	90-	23		TIN COATED
J027	95A	90-	23		TIN COATED
J028	95A	90-	23		TIN COATED
J030	95A	90-	23		TIN COATED
J031	95A	90-	23		TIN COATED
J032	95A	90-	23		TIN COATED
J033	95A	90-	23		TIN COATED
J034	95A	90-	23		TIN COATED
J035	95A	90-	23		TIN COATED
J036	95A	90-	23		TIN COATED
J037	95A	90-	23		TIN COATED
J038	95A	90-	23		TIN COATED
J040	95A	90-	23		TIN COATED
J041	95A	90-	23		TIN COATED
J042	95A	90-	23		TIN COATED
J043	95A	90-	23		TIN COATED
J044	95A	90-	23		TIN COATED
J045	95A	90-	23		TIN COATED
J046	95A	90-	23		TIN COATED

J047	95A	90-	23	TIN COATED
J048	95A	90-	23	TIN COATED
J049	95A	90-	23	TIN COATED
J051	95A	90-	23	TIN COATED
J052	95A	90-	23	TIN COATED
J053	95A	90-	23	TIN COATED
J055	95A	90-	23	TIN COATED
J056	95A	90-	23	TIN COATED
J057	95A	90-	23	TIN COATED
J058	95A	90-	23	TIN COATED
J059	95A	90-	23	TIN COATED
J060	95A	90-	23	TIN COATED
J062	95A	90-	23	TIN COATED
J063	95A	90-	23	TIN COATED

LOCATION	D8905A				SPECIFICATION
J064	95A	90-	23	52T	TIN COATED
J065	95A	90-	23		TIN COATED
J068	95A	90-	23		TIN COATED
J069	95A	90-	23		TIN COATED
J070	95A	90-	23		TIN COATED
J071	95A	90-	23		TIN COATED
J072	95A	90-	23		TIN COATED
J073	95A	90-	23		TIN COATED
J074	95A	90-	23		TIN COATED
J076	95A	90-	23		TIN COATED
J077	95A	90-	23		TIN COATED
J078	95A	90-	23		TIN COATED
J079	95A	90-	23		TIN COATED
J080	95A	90-	23		TIN COATED
J081	95A	90-	23		TIN COATED
J082	95A	90-	23		TIN COATED
J083	95A	90-	23		TIN COATED
J084	95A	90-	23		TIN COATED
J085	95A	90-	23		TIN COATED
J086	95A	90-	23		TIN COATED
J087	95A	90-	23		TIN COATED
J088	61A	172-	102 -		1K OHM +-5% 1/4W
J089	95A	90-	23		TIN COATED
J090	95A	90-	23		TIN COATED
J091	95A	90-	23		TIN COATED
J092	95A	90-	23		TIN COATED
J093	95A	90-	23		TIN COATED
J094	95A	90-	23		TIN COATED
J096	95A	90-	23		TIN COATED
J097	95A	90-	23		TIN COATED
J098	95A	90-	23		TIN COATED
J100	95A	90-	23		TIN COATED
J101	95A	90-	23		TIN COATED
J106	95A	90-	23		TIN COATED
J107	95A	90-	23		TIN COATED
J109	95A	90-	23		TIN COATED
J110	95A	90-	23		TIN COATED
J111	95A	90-	23		TIN COATED
J112	95A	90-	23		TIN COATED
J113	95A	90-	23		TIN COATED
J114	95A	90-	23		TIN COATED
J115	95A	90-	23		TIN COATED
J116	95A	90-	23		TIN COATED
J117	95A	90-	23		TIN COATED
J118	95A	90-	23		TIN COATED
J119	95A	90-	23		TIN COATED
J120	95A	90-	23		TIN COATED
J121	95A	90-	23		TIN COATED
J123	95A	90-	23		TIN COATED

J125	95A	90-	23	TIN COATED
J126	95A	90-	23	TIN COATED
J127	95A	90-	23	TIN COATED
J128	95A	90-	23	TIN COATED
J129	95A	90-	23	TIN COATED
J130	95A	90-	23	TIN COATED
J131	95A	90-	23	TIN COATED
J132	95A	90-	23	TIN COATED
J133	95A	90-	23	TIN COATED
J134	95A	90-	23	TIN COATED
J135	95A	90-	23	TIN COATED
J136	95A	90-	23	TIN COATED
J137	95A	90-	23	TIN COATED
J138	95A	90-	23	TIN COATED

LOCATION	D8905A				SPECIFICATION
J139	95A	90-	23		TIN COATED
J140	95A	90-	23		TIN COATED
J141	95A	90-	23		TIN COATED
J143	95A	90-	23		TIN COATED
J144	95A	90-	23		TIN COATED
J146	95A	90-	23		TIN COATED
J147	95A	90-	23		TIN COATED
J148	95A	90-	23		TIN COATED
J149	95A	90-	23		TIN COATED
J151	95A	90-	23		TIN COATED
J152	95A	90-	23		TIN COATED
J154	95A	90-	23		TIN COATED
J156	95A	90-	23		TIN COATED
J157	95A	90-	23		TIN COATED
J158	95A	90-	23		TIN COATED
J161	95A	90-	23		TIN COATED
J162	95A	90-	23		TIN COATED
J166	95A	90-	23		TIN COATED
JA	95A	90-	23		TIN COATED
JB	95A	90-	23		TIN COATED
JUM1	95A	90-	23		TIN COATED
JUM2	95A	90-	23		TIN COATED
JUM3	95A	90-	23		TIN COATED
JWT1	95A	90-	23		TIN COATED
JWT2	95A	90-	23		TIN COATED
JWT3	95A	90-	23		TIN COATED
L101	73A	54-	339 -	10T	3.3UH +-10%
L102	73A	54-	220 -	5T	22UH
L402	95A	90-	23		TIN COATED
L406	95A	90-	23		TIN COATED
L907	95A	90-	23		TIN COATED
Q101	57A	420-	SG -	T	TR. KSA733C-G
Q401	57A	420-	SG -	T	TR. KSA733C-G
Q402	57A	731-	1A -	T	TR. 2SK2962
Q404	57A	420-	SG -	T	TR. KSA733C-G
Q405	57A	420-	SG -	T	TR. KSA733C-G
Q407	57A	419-	SG -	T	KSC945C-G
Q408	57A	419-	SG -	T	KSC945C-G
Q410	57A	419-	SG -	T	KSC945C-G
Q601	57A	419-	Y -	T	TR. 2SC1815Y
Q703	57A	419-	SG -	T	KSC945C-G
Q704	57A	420-	SG -	T	TR. KSA733C-G
Q705	57A	498-	1 -	T	TR. BF423
Q706	57A	420-	SG -	T	TR. KSA733C-G
Q708	57A	419-	SG -	T	KSC945C-G
Q710	57A	419-	SG -	T	KSC945C-G
Q730	57A	419-	SG -	T	KSC945C-G
Q731	57A	420-	SG -	T	TR. KSA733C-G
Q732	57A	419-	SG -	T	KSC945C-G

Q735	57A	498-	1 -	T	TR. BF423
Q740	57A	493-	10 -	T	TR. BF422
Q741	57A	419-	SG -	T	KSC945C-G
Q742	57A	419-	SG -	T	KSC945C-G
Q902	57A	446-	1 -	T	TR. 2SC1213AC
Q903	57A	419-	SG -	T	KSC945C-G
Q905	57A	420-	SG -	T	TR. KSA733C-G
Q908	57A	419-	SG -	T	KSC945C-G
Q910	57A	419-	SG -	T	KSC945C-G
Q912	57A	446-	1 -	T	TR. 2SC1213AC
Q913	57A	419-	SG -	T	KSC945C-G
Q918	57A	446-	1 -	T	TR. 2SC1213AC
Q920	57A	619-	1 -	T	TR. 2SA673AC
Q921	57A	446-	1 -	T	TR. 2SC1213AC
Q990	57A	419-	SG -	T	KSC945C-G

LOCATION	D8905A				SPECIFICATION
R100	61A	602-	472 -	52T	4.7K OHM +-5% 1/6W
R106	61A	602-	303 -	52T	30K OHM +-5% 1/6W
R108	61A	602-	512 -	52T	5.1K OHM +-5% 1/6W
R109	61A	602-	512 -	52T	5.1K OHM +-5% 1/6W
R110	61A	172-	221 -	52T	220 OHM +-5% 1/4W
R111	61A	172-	221 -	52T	220 OHM +-5% 1/4W
R112	61A	602-	622 -	52T	6.2K OHM +-5% 1/6W
R113	61A	602-	203 -	52T	20K OHM +-5% 1/6W
R114	61A	602-	102 -	52T	1K OHM +-5% 1/6W
R116	61A	602-	472 -	52T	4.7K OHM +-5% 1/6W
R117	61A	602-	101 -	52T	100 OHM +-5% 1/6W
R118	61A	602-	103 -	52T	10K OHM +-5% 1/6W
R119	61A	602-	103 -	52T	10K OHM +-5% 1/6W
R120	61A	602-	222 -	52T	2.2K OHM +-5% 1/6W
R122	61A	172-	221 -	52T	220 OHM +-5% 1/4W
R123	61A	602-	222 -	52T	2.2K OHM +-5% 1/6W
R124	61A	602-	152 -	52T	1.5K OHM +-5% 1/6W
R125	61A	602-	222 -	52T	2.2K OHM +-5% 1/6W
R126	61A	172-	202 -	52T	2K OHM +-5% 1/4W
R127	61A	602-	102 -	52T	1K OHM +-5% 1/6W
R128	61A	602-	102 -	52T	1K OHM +-5% 1/6W
R130	61A	602-	472 -	52T	4.7K OHM +-5% 1/6W
R131	61A	602-	472 -	52T	4.7K OHM +-5% 1/6W
R132	61A	602-	101 -	52T	100 OHM +-5% 1/6W
R133	61A	602-	472 -	52T	4.7K OHM +-5% 1/6W
R135	61A	602-	152 -	52T	1.5K OHM +-5% 1/6W
R136	61A	602-	222 -	52T	2.2K OHM +-5% 1/6W
R138	61A	602-	103 -	52T	10K OHM +-5% 1/6W
R139	61A	602-	102 -	52T	1K OHM +-5% 1/6W
R140	61A	602-	331 -	52T	330 OHM +-5% 1/6W
R141	61A	602-	222 -	52T	2.2K OHM +-5% 1/6W
R143	61A	602-	101 -	52T	100 OHM +-5% 1/6W
R146	61A	602-	103 -	52T	10K OHM +-5% 1/6W
R147	61A	602-	103 -	52T	10K OHM +-5% 1/6W
R148	61A	602-	103 -	52T	10K OHM +-5% 1/6W
R149	61A	602-	103 -	52T	10K OHM +-5% 1/6W
R150	61A	602-	103 -	52T	10K OHM +-5% 1/6W
R151	61A	602-	103 -	52T	10K OHM +-5% 1/6W
R152	61A	602-	302 -	52T	3K OHM +-5% 1/6W
R153	61A	602-	332 -	52T	3.3K OHM +-5% 1/6W
R154	61A	602-	562 -	52T	5.6K OHM +-5% 1/6W
R155	61A	172-	474 -	52T	470K OHM +-5% 1/4W
R156	61A	602-	472 -	52T	4.7K OHM +-5% 1/6W
R157	61A	602-	472 -	52T	4.7K OHM +-5% 1/6W
R158	61A	602-	472 -	52T	4.7K OHM +-5% 1/6W
R159	61A	602-	101 -	52T	100 OHM +-5% 1/6W
R160	61A	602-	101 -	52T	100 OHM +-5% 1/6W
R161	61A	602-	122 -	52T	1.2K OHM +-5% 1/6W

ꠗ163	61A	172-	682 -	52T	6.8K OHM +-5% 1/4W
ꠗ165	61A	602-	222 -	52T	2.2K OHM +-5% 1/6W
ꠗ167	61A	175L-	331 -	52T	330 OHM +-5% 1/2W
ꠗ170	61A	602-	101 -	52T	100 OHM +-5% 1/6W
ꠗ171	61A	602-	101 -	52T	100 OHM +-5% 1/6W
ꠗ172	61A	602-	101 -	52T	100 OHM +-5% 1/6W
ꠗ173	61A	172-	470 -	52T	47 OHM +-5% 1/4W
ꠗ174	61A	602-	102 -	52T	1K OHM +-5% 1/6W
ꠗ175	61A	602-	202 -	52T	2K OHM +-5% 1/6W
ꠗ180	61A	602-	362 -	52T	3.6K OHM +-5% 1/6W
ꠗ181	61A	602-	152 -	52T	1.5K OHM +-5% 1/6W
ꠗ182	61A	602-	331 -	52T	330 OHM +-5% 1/6W
ꠗ186	61A	602-	202 -	52T	2K OHM +-5% 1/6W
ꠗ401	61A	172-	205 -	52T	2M OHM +-5% 1/4W
ꠗ402	61A	172-	222 -	52T	2.2K OHM +-5% 1/4W

LOCATION	D8905A				SPECIFICATION
R403	61A	602-	101 -	52T	100 OHM +-5% 1/6W
R404	61A	602-	101 -	52T	100 OHM +-5% 1/6W
R405	61A	602-	101 -	52T	100 OHM +-5% 1/6W
R406	61A	602-	101 -	52T	100 OHM +-5% 1/6W
R408	61A	172-	474 -	52T	470K OHM +-5% 1/4W
R409	61A	210-	133 -	52T	13K OHM +-1% 1/6W
R410	61A	210-	472 -	52T	4.7K OHM +-1% 1/6W
R411	61A	602-	182 -	52T	1.8K OHM +-5% 1/6W
R414	61A	172-	472 -	52T	4.7K OHM +-5% 1/4W
R415	95A	90-	23		TIN COATED
R416	61A	172-	163 -	52T	16K OHM +-5% 1/4W
R417	61A	210-	202 -	52T	2K OHM +-1% 1/6W
R418	61A	210-	472 -	52T	4.7K OHM +-1% 1/6W
R420	61A	172-	472 -	52T	4.7K OHM +-5% 1/4W
R422	61A	602-	101 -	52T	100 OHM +-5% 1/6W
R423	61A	602-	203 -	52T	20K OHM +-5% 1/6W
R425	61A	172-	101 -	52T	100 OHM +-5% 1/4W
R427	61A	175L-	220 -	52T	22 OHM +-5% 1/2W
R429	61A	175L-	100 -	52T	10 OHM +-5% 1/2W
R430	61A	172-	184 -	52T	180K OHM +-5% 1/4W
R431	61A	172-	622 -	52T	6.2K OHM +-5% 1/4W
R433	61A	602-	102 -	52T	1K OHM +-5% 1/6W
R434	61A	602-	392 -	52T	3.9K OHM +-5% 1/6W
R436	61A	602-	681 -	52T	680 OHM +-5% 1/6W
R438	95A	90-	23		TIN COATED
R440	61A	172-	512 -	52T	5.1K OHM +-5% 1/4W
R441	61A	175L-	683 -	52T	68K OHM +-5% 1/2W
R442	61A	175L-	102 -	52T	1K OHM +-5% 1/2W
R443	61A	172-	473 -	52T	47K OHM +-5% 1/4W
R444	95A	90-	23		TIN COATED
R447	61A	172-	103 -	52T	10K OHM +-5% 1/4W
R450	61A	602-	103 -	52T	10K OHM +-5% 1/6W
R459	95A	90-	23		TIN COATED
R460	61A	172-	472 -	52T	4.7K OHM +-5% 1/4W
R462	61A	602-	473 -	52T	47K OHM +-5% 1/6W
R471	61A	602-	563 -	52T	56K OHM +-5% 1/6W
R472	61A	172-	224 -	52T	220K OHM +-5% 1/4W
R473	61A	172-	103 -	52T	10K OHM +-5% 1/4W
R474	61A	172-	104 -	52T	100K OHM +-5% 1/4W
R475	61A	172-	103 -	52T	10K OHM +-5% 1/4W
R476	61A	172-	224 -	52T	220K OHM +-5% 1/4W
R480	95A	90-	23		TIN COATED
R497	95A	90-	23		TIN COATED
R601	61A	172-	243 -	52T	24K OHM +-5% 1/4W
R602	61A	172-	392 -	52T	3.9K OHM +-5% 1/4W
R603	61A	172-	123 -	52T	12K OHM +-5% 1/4W
R604	61A	172-	562 -	52T	5.6K OHM +-5% 1/4W
R605	61A	175L-	159 -	52T	1.5 OHM +-5% 1/2W

R606	61A	175L-	181 -	52T	180 OHM +-5% 1/2W
R609	61A	602-	222 -	52T	2.2K OHM +-5% 1/6W
R610	61A	172-	124 -	52T	120K OHM +-5% 1/4W
R611	61A	602-	123 -	52T	12K OHM +-5% 1/6W
R612	61A	172-	222 -	52T	2.2K OHM +-5% 1/4W
R613	61A	172-	102 -	52T	1K OHM +-5% 1/4W
R616	61A	602-	101 -	52T	100 OHM +-5% 1/6W
R707	61A	602-	472 -	52T	4.7K OHM +-5% 1/6W
R708	61A	172-	103 -	52T	10K OHM +-5% 1/4W
R709	61A	602-	103 -	52T	10K OHM +-5% 1/6W
R710	61A	602-	103 -	52T	10K OHM +-5% 1/6W
R711	61A	602-	103 -	52T	10K OHM +-5% 1/6W
R712	61A	602-	273 -	52T	27K OHM +-5% 1/6W
R713	61A	602-	562 -	52T	5.6K OHM +-5% 1/6W
R714	61A	172-	121 -	52T	120 OHM +-5% 1/4W

LOCATION	D8905A				SPECIFICATION
R715	61A	602-	103 -	52T	10K OHM +-5% 1/6W
R720	61A	175L-	104 -	52T	100K OHM +-5% 1/2W
R721	61A	175L-	102 -	52T	1K OHM +-5% 1/2W
R722	61A	602-	332 -	52T	3.3K OHM +-5% 1/6W
R724	61A	212Y-	105 -	52T	1MEG OHM 1/4W +-5%
R725	61A	212Y-	274 -	52T	270K OHM 1/4W +-5%
R726	61A	602-	102 -	52T	1K OHM +-5% 1/6W
R727	61A	175L-	682 -	52T	6.8K OHM +-5% 1/2W
R728	61A	172-	561 -	52T	560 OHM +-5% 1/4W
R730	95A	90-	23		TIN COATED
R733	61A	172-	101 -	52T	100 OHM +-5% 1/4W
R734	61A	172-	683 -	52T	68K OHM +-5% 1/4W
R735	61A	172-	104 -	52T	100K OHM +-5% 1/4W
R737	61A	210-	103 -	52T	10K OHM +-1% 1/6W
R738	61A	172-	102 -	52T	1K OHM +-5% 1/4W
R739	61A	602-	331 -	52T	330 OHM +-5% 1/6W
R740	61A	175L-	563 -	52T	56K OHM +-5% 1/2W
R741	61A	175L-	563 -	52T	56K OHM +-5% 1/2W
R744	61A	602-	563 -	52T	56K OHM +-5% 1/6W
R745	61A	602-	681 -	52T	680 OHM +-5% 1/6W
R747	61A	175L-	563 -	52T	56K OHM +-5% 1/2W
R748	61A	602-	223 -	52T	22K OHM +-5% 1/6W
R749	61A	602-	104 -	52T	100K OHM +-5% 1/6W
R750	95A	90-	23		TIN COATED
R751	61A	602-	122 -	52T	1.2K OHM +-5% 1/6W
R770	61A	172-	333 -	52T	33K OHM +-5% 1/4W
R771	61A	172-	102 -	52T	1K OHM +-5% 1/4W
R772	61A	602-	102 -	52T	1K OHM +-5% 1/6W
R780	61A	602-	105 -	52T	1M OHM +-5% 1/6W
R781	61A	602-	823 -	52T	82K OHM +-5% 1/6W
R782	61A	602-	563 -	52T	56K OHM +-5% 1/6W
R783	61A	210-	822 -	52T	8.2K OHM +-1% 1/6W
R784	61A	602-	563 -	52T	56K OHM +-5% 1/6W
R785	61A	602-	223 -	52T	22K OHM +-5% 1/6W
R786	61A	602-	102 -	52T	1K OHM +-5% 1/6W
R902	61A	602-	472 -	52T	4.7K OHM +-5% 1/6W
R905	61A	602-	622 -	52T	6.2K OHM +-5% 1/6W
R906	61A	172-	100 -	52T	10 OHM +-5% 1/4W
R908	61A	175L-	150 -	52T	15 OHM +-5% 1/2W
R909	61A	172-	101 -	52T	100 OHM +-5% 1/4W
R910	61A	602-	913 -	52T	91K OHM +-5% 1/6W
R911	95A	90-	23		TIN COATED
R914	61A	172-	102 -	52T	1K OHM +-5% 1/4W
R915	61A	172-	152 -	52T	1.5K OHM +-5% 1/4W
R917	61A	212Y-	474 -	52T	470K OHM 1/2W +-5%
R918	61A	212Y-	474 -	52T	470K OHM 1/2W +-5%
R921	95A	90-	23		TIN COATED
R923	61A	212Y-	823 -	52T	82K OHM 1/2W +-5%
R928	61A	212Y-	823 -	52T	82K OHM 1/2W +-5%

R930	61A	172-	102 -	52T	1K OHM +-5% 1/4W
R931	61A	200-	109 -	52T	1 OHM +-1% 1/4W
R932	61A	212Y-	104 -	52T	100K OHM 1/2W +-5%
R935	61A	172-	334 -	52T	330K OHM +-5% 1/4W
R937	61A	172-	151 -	52T	150 OHM +-5% 1/4W
R938	61A	172-	220 -	52T	22 OHM +-5% 1/4W
R939	61A	172-	203 -	52T	20K OHM +-5% 1/4W
R940	61A	171-	393 -	52T	39K OHM +-2% 1/4W
R941	61A	172-	151 -	52T	150 OHM +-5% 1/4W
R942	61A	172-	680 -	52T	68 OHM +-5% 1/4W
R944	61A	172-	512 -	52T	5.1K OHM +-5% 1/4W
R951	61A	172-	221 -	52T	220 OHM +-5% 1/4W
R952	61A	172-	473 -	52T	47K OHM +-5% 1/4W
R953.	61A	172-	303 -	52T	30K OHM +-5% 1/4W

LOCATION	D8905A				SPECIFICATION
R955	71A	55-	19 -	T	BEAD
R957	61A	172-	473 -	52T	47K OHM +-5% 1/4W
R958	61A	172-	102 -	52T	1K OHM +-5% 1/4W
R959	61A	172-	333 -	52T	33K OHM +-5% 1/4W
R960	61A	172-	473 -	52T	47K OHM +-5% 1/4W
R962	61A	172-	220 -	52T	22 OHM +-5% 1/4W
R963	61A	175L-	681 -	52T	680 OHM +-5% 1/2W
R965	61A	172-	100 -	52T	10 OHM +-5% 1/4W
R966	61A	172-	302 -	52T	3K OHM +-5% 1/4W
R967	61A	172-	752 -	52T	7.5K OHM +-5% 1/4W
R968	61A	172-	204 -	52T	200K OHM +-5% 1/4W
R969	61A	175L-	753 -	52T	75K OHM +-5% 1/2W
R972	61A	172-	163 -	52T	16K OHM +-5% 1/4W
R973	61A	175L-	753 -	52T	75K OHM +-5% 1/2W
R977	61A	175L-	753 -	52T	75K OHM +-5% 1/2W
R979	61A	172-	151 -	52T	150 OHM +-5% 1/4W
R980	61A	172-	221 -	52T	220 OHM +-5% 1/4W
R981	61A	175L-	101 -	52T	100 OHM +-5% 1/2W
R982	61A	172-	103 -	52T	10K OHM +-5% 1/4W
R983	61A	172-	103 -	52T	10K OHM +-5% 1/4W
R985	61A	172-	331 -	52T	330 OHM +-5% 1/4W
R986	61A	175L-	106 -	52T	10M OHM +-5% 1/2W
R988	61A	172-	223 -	52T	22K OHM +-5% 1/4W
R992	61A	602-	222 -	52T	2.2K OHM +-5% 1/6W
R993	61A	172-	103 -	52T	10K OHM +-5% 1/4W
R994	61A	172-	103 -	52T	10K OHM +-5% 1/4W
R995	61A	172-	393 -	52T	39K OHM +-5% 1/4W
R996	61A	602-	103 -	52T	10K OHM +-5% 1/6W
R999	61A	602-	103 -	52T	10K OHM +-5% 1/6W
ZD101	93A	39-	79 -	52T	ZD HZ6C2
ZD151	93A	39-	52 -	52T	ZD HZ5C2
ZD420	93A	39-	522 -	52T	ZD TZX20B
ZD430	93A	39-	52 -	52T	ZD HZ5C2
ZD701	93A	39-	126 -	52T	RD3.6EB2
ZD770	93A	39-	524 -	52T	ZD MTZJ2.0B
ZD905	93A	39-	79 -	52T	ZD HZ6C2
ZD908	93A	39-	79 -	52T	ZD HZ6C2
ZD983	95A	90-	23		TIN COATED

PARTS LIST OF CRT PC BOARD

LOCATION	CR761VSNHP AIR761VSNHP				SPECIFICATION CRT BOARD
	40A	581-	26 -	605	LABEL
	55A	1-	4		SOLDER BAR
	87A	3504-	QJ		CRT SOCKET

C835	705A	761V-	R56 -	HP	IC802 ASS _Y
C837	65A	2M-	103 -	3A	10000PF 2KV
G2	67A	305-	479 -	10	4.7UF 160V +-20%
	9A	203-	8		BRASS PIN
GND	9A	203-	8		BRASS PIN
IC801	56A	539-	2		LM1279N
P801	33A	3278-	12A		PLUG
P802	33A	3278-	10		10P PLUG
P803	33A	3278-	6		6P PLUG
P804	33A	3278-	11		11P PLUG
R807	61A	208-	390 -	64	39 OHM 1W 5%
R859	61A	152M-	101 -	64	100 OHM 2W 5%

PARTS LIST OF CRT AUTO INS. PC BOARD

LOCATION	AIR761VSNHP				SPECIFICATION
	6A	31-	4		BRASS
	715A	793-	F		CRPC BOARD
C801	67A	305-	100 -	7T	10uF +-20% 50V
C802	67A	305-	100 -	7T	10uF +-20% 50V
C803	67A	305-	100 -	7T	10uF +-20% 50V
C804	64A	176J-	104 -	0T	0.1uF +-5% 63V
C805	64A	176J-	104 -	0T	0.1uF +-5% 63V
C806	64A	176J-	104 -	0T	0.1uF +-5% 63V
C807	67A	305-	100 -	7T	10uF +-20% 50V
C808	67A	309-	470 -	3T	47uF +-20% 16V
C809	65A	450-	104 -	7T	0.1uF +80% -20% Y5V 50V
C812	67A	305-	101 -	3T	100uF +-20% 16V
C813	65A	450-	104 -	7T	0.1uF +80% -20% Y5V 50V
C814	65A	450-	104 -	7T	0.1uF +80% -20% Y5V 50V
C815	65A	450-	104 -	7T	0.1uF +80% -20% Y5V 50V
C816	65A	450-	104 -	7T	0.1uF +80% -20% Y5V 50V
C819	65A	450-	104 -	7T	0.1uF +80% -20% Y5V 50V
C820	64A	176J-	104 -	1T	0.1uF +-5% 100V
C828	67A	70-	478 -	9T	0.47uF 100V NP
C829	67A	70-	478 -	9T	0.47uF 100V NP
C830	67A	70-	478 -	9T	0.47uF 100V NP
C831	67A	309-	109 -	9T	1UF +-20% 100V
C832	67A	309-	109 -	9T	1UF +-20% 100V
C833	67A	309-	109 -	9T	1UF +-20% 100V
C834	65A	450-	103 -	3T	0.01Uf +80-20% 50V
C836	65A	1K-	222 -	2T	0.0022Uf +-10% 1KV
C841	65A	450-	104 -	7T	0.1UF 50V +80-20%
C842	65A	450-	104 -	7T	0.1UF 50V +80-20%
C843	65A	450-	104 -	7T	0.1UF 50V +80-20%
C860	65A	450-	103 -	7T	10000PF 50V +80-20%
C861	65A	517K-	102 -	2T	1000PF +-10% 500V
C862	65A	517K-	221 -	2T	220PF +-10% 500V
C863	65A	444-	102 -	13T	1000PF 50V +-10%
C870	65A	517K-	102 -	1T	1NF +-10% 500V
C872	65A	517K-	102 -	1T	1NF +-10% 500V
C873	65A	517K-	102 -	1T	1NF +-10% 500V
C887	65A	442-	101 -	13T	100PF 50V +-5% NPO
D801	93A	64-	11 -	26T	DIODE IN4148
D802	93A	64-	11 -	26T	DIODE IN4148
D803	93A	64-	11 -	26T	DIODE IN4148
D804	93A	64-	11 -	26T	DIODE IN4148
D805	93A	64-	11 -	26T	DIODE IN4148
D806	93A	64-	11 -	26T	DIODE IN4148
D807	93A	64-	11 -	26T	DIODE IN4148
D808	93A	64-	31T -	26T	SWITCH DIODE
D809	93A	64-	31T -	26T	SWITCH DIODE
D810	93A	64-	31T -	26T	SWITCH DIODE
D811	93A	64-	31T -	26T	SWITCH DIODE

D812	93A	64-	31T -	26T	SWITCH DIODE
D813	93A	64-	31T -	26T	SWITCH DIODE
D814	93A	64-	31T -	26T	SWITCH DIODE
D815	93A	64-	31T -	26T	SWITCH DIODE
D816	93A	64-	31T -	26T	SWITCH DIODE
D817	93A	52-	9T -	52T	2A 600V
D840	93A	64-	11 -	52T	DIODE IN4148
D841	93A	64-	11 -	52T	DIODE IN4148
D842	93A	64-	11 -	52T	DIODE IN4148
FB804	71A	55-	19 -	T	BEAD
FB815	71A	55-	19 -	T	BEAD
J801	95A	90-	23		TIN COATED
J802	95A	90-	23		TIN COATED
J803	95A	90-	23		TIN COATED

LOCATION	AIR761VSNHP				SPECIFICATION
J804	95A	90-	23		TIN COATED
J805	95A	90-	23		TIN COATED
J806	95A	90-	23		TIN COATED
J807	95A	90-	23		TIN COATED
J808	95A	90-	23		TIN COATED
J809	95A	90-	23		TIN COATED
J810	95A	90-	23		TIN COATED
J811	95A	90-	23		TIN COATED
J812	95A	90-	23		TIN COATED
J814	95A	90-	23		TIN COATED
J815	95A	90-	23		TIN COATED
J817	95A	90-	23		TIN COATED
J818	95A	90-	23		TIN COATED
L801	71A	55-	19 -	T	BEAD
L805	73A	54-	478 -	10T	0.47UH +-10%
L806	73A	54-	478 -	10T	0.47UH +-10%
L807	73A	54-	478 -	10T	0.47UH +-10%
L808	71A	55-	19 -	T	BEAD
L809	73A	54-	478 -	10T	0.47UH +-10%
L810	73A	54-	478 -	10T	0.47UH +-10%
L811	73A	54-	478 -	10T	0.47UH +-10%
Q821	57A	493-	10 -	T	TR. BF422
Q822	57A	493-	10 -	T	TR. BF422
Q823	57A	493-	10 -	T	TR. BF422
Q830	57A	498-	1 -	T	TR. BF423
Q831	57A	498-	1 -	T	TR. BF423
Q832	57A	498-	1 -	T	TR. BF423
R801	61A	602-	750 -	26T	75 OHM +-5% 1/6W
R802	61A	602-	750 -	26T	75 OHM +-5% 1/6W
R803	61A	602-	750 -	26T	75 OHM +-5% 1/6W
R804	61A	602-	300 -	26T	30 OHM +-5% 1/6W
R805	61A	602-	300 -	26T	30 OHM +-5% 1/6W
R806	61A	602-	300 -	26T	30 OHM +-5% 1/6W
R808	61A	602-	102 -	52T	1K OHM +-5% 1/6W
R809	61A	172-	225 -	26T	2.2M OHM +-5% 1/4W
R810	61A	602-	101 -	26T	100 OHM +-5% 1/6W
R815	61A	602-	391 -	26T	390 OHM +-5% 1/6W
R816	61A	602-	391 -	26T	390 OHM +-5% 1/6W
R817	61A	602-	391 -	26T	390 OHM +-5% 1/6W
R818	61A	602-	100 -	26T	10 OHM +-5% 1/6W
R819	61A	602-	100 -	26T	10 OHM +-5% 1/6W
R820	61A	602-	100 -	26T	10 OHM +-5% 1/6W
R823	61A	172-	111 -	26T	110 OHM +-5% 1/4W
R824	61A	172-	111 -	26T	110 OHM +-5% 1/4W
R825	61A	172-	111 -	26T	110 OHM +-5% 1/4W
R826	61A	172-	751 -	26T	750 OHM +-5% 1/4W
R831	61A	602-	102 -	52T	1K OHM +-5% 1/6W
R832	61A	602-	102 -	52T	1K OHM +-5% 1/6W
R833	61A	602-	102 -	52T	1K OHM +-5% 1/6W

R840	61A	172-	222 -	26T	2.2K OHM +-5% 1/4W
R841	61A	172-	223 -	26T	22K OHM +-5% 1/4W
R842	61A	172-	223 -	26T	22K OHM +-5% 1/4W
R843	61A	172-	222 -	26T	2.2K OHM +-5% 1/4W
R844	61A	172-	223 -	26T	22K OHM +-5% 1/4W
R845	61A	172-	222 -	26T	2.2K OHM +-5% 1/4W
R846	61A	172-	224 -	26T	220K OHM +-5% 1/4W
R847	61A	172-	224 -	26T	220K OHM +-5% 1/4W
R848	61A	172-	224 -	26T	220K OHM +-5% 1/4W
R849	61A	172-	224 -	26T	220K OHM +-5% 1/4W
R850	61A	172-	224 -	26T	220K OHM +-5% 1/4W
R851	61A	172-	224 -	26T	220K OHM +-5% 1/4W
R855	61A	175L-	101 -	52T	100 OHM +-5% 1/2W
R856	61A	175L-	101 -	52T	100 OHM +-5% 1/2W

LOCATION	AIR761VSNHP				SPECIFICATION
R857	61A	175L-	101 -	52T	100 OHM +-5% 1/2W
R858	95A	90-	23		TIN COATED
R860	61A	175L-	104 -	52T	100K OHM +-5% 1/2W
R866	61A	602-	101 -	26T	100 OHM +-5% 1/6W
R867	61A	602-	101 -	26T	100 OHM +-5% 1/6W
R868	61A	602-	101 -	26T	100 OHM +-5% 1/6W
R870	61A	172-	102 -	26T	1K OHM +-5% 1/4W
R872	61A	172-	102 -	26T	1K OHM +-5% 1/4W
R873	61A	172-	102 -	26T	1K OHM +-5% 1/4W
R886	61A	602-	222 -	52T	2.2K OHM +-5% 1/6W
R887	61A	602-	222 -	52T	2.2K OHM +-5% 1/6W
R888	61A	602-	222 -	52T	2.2K OHM +-5% 1/6W
R891	61A	602-	102 -	52T	1K OHM +-5% 1/6W
R892	61A	602-	102 -	52T	1K OHM +-5% 1/6W
R893	61A	602-	102 -	52T	1K OHM +-5% 1/6W
R894	61A	602-	561 -	52T	560 OHM +-5% 1/6W
R895	61A	602-	561 -	52T	560 OHM +-5% 1/6W
R896	61A	602-	561 -	52T	560 OHM +-5% 1/6W
ZD801	93A	39-	514 -	52T	HZ9A3

PARTS LIST OF IC802 ASS'Y

LOCATION	PARTS No.				SPECIFICATION
IC802	90A	315-	500		HEAT SINK
	M1A	1730-	8 -	128	SCREW
	56A	551-	2		LM2439

PARTS LIST OF IC601 ASS'Y

LOCATION	PARTS No.				SPECIFICATION
IC601	5A	42-	501		NYLON WASHER
	12A	372-	1		SILICONE RUBBER
	90A	348-	501		HEAT SINK
	M1A	1730-	10 -	128	SCREW
	56A	574-	1		TDA9302H

PARTS LIST OF Q403/Q406/D408 ASS'Y

LOCATION	PARTS No.				SPECIFICATION
	5A	42-	501		NYLON WASHER
	12A	372-	1		SILICONE RUBBER
	32A	3028-	8		MICA
	90A	363-	518		HEAT SINK

D408



HS1

Q403

Q406

M1A	1130-	8 -	128	SCREW
M1A	1730-	8 -	128	SCREW
M1A	1730-	10 -	128	SCREW
93A	220-	12		FMP-2FUR 1500/600V
95A	205B-	30 -	04A	WIRE
57A	706-	7		2SC5521Z
57A	415-	500		TR. TIP122

PARTS LIST OF Q901 ASS'Y

LOCATION

PARTS No.

SPECIFICATION

5A	42-	501	NYLON WASHER
12A	372-	1	SILICONE RUBBER
90A	348-	3	HEAT SINK



Q901

M1A	1730-	10 -	128	SCREW
57A	724-	2		TR. 2SK3115

PARTS LIST OF Q911 ASS'Y

LOCATION

PARTS No.

SPECIFICATION

5A	42-	501	NYLON WASHER
12A	372-	1	SILICONE RUBBER
90A	231-	2	HEAT SINK



Q911

M1A	1730-	8 -	128	SCREW
57A	600-	504		IRF634A

PARTS LIST OF Q426 ASS'Y

LOCATION

PARTS No.

SPECIFICATION

5A	42-	501	NYLON WASHER
12A	372-	1	SILICONE RUBBER
90A	360-	1	HEAT SINK



Q426

M1A	1730-	8 -	128	SCREW
57A	600-	503		IRF630A

PARTS LIST OF NR901 ASS'Y

LOCATION	PARTS No.				SPECIFICATION
NR901	9A	203-	9		PIN
	61A	58-	8T -	L	NTC.SCK-152X

PARTS LIST OF AC SOCKET ASS'Y

LOCATION	PARTS No.				SPECIFICATION
 CN901	95A	205S-	354 -	043	WIRE&CORE ASS'Y
	96A	29-	6 -	190	H.S. TUBING
	87A	501-	5		RECEPTACLES 0714

PARTS LIST OF D919 ASS'Y

LOCATION	PARTS No.				SPECIFICATION
D919	71A	55-	2		FERRITE BEAD
	90A	360-	501		HEAT SINK
	93A	60-	73A		3A/400V 31DF4

PARTS LIST OF IC101 ASS'Y

LOCATION	PARTS No.				SPECIFICATION
IC101	56A	1125-	10 -	I	NT68P61A
IC102	56A	1133-	11		24LC04B/P
IC105	56A	1131-	7		NT6828-00013 16 PIN
X101	93A	22-	22		8.0000 MHZ

PARTS LIST OF IC101 ASS'Y

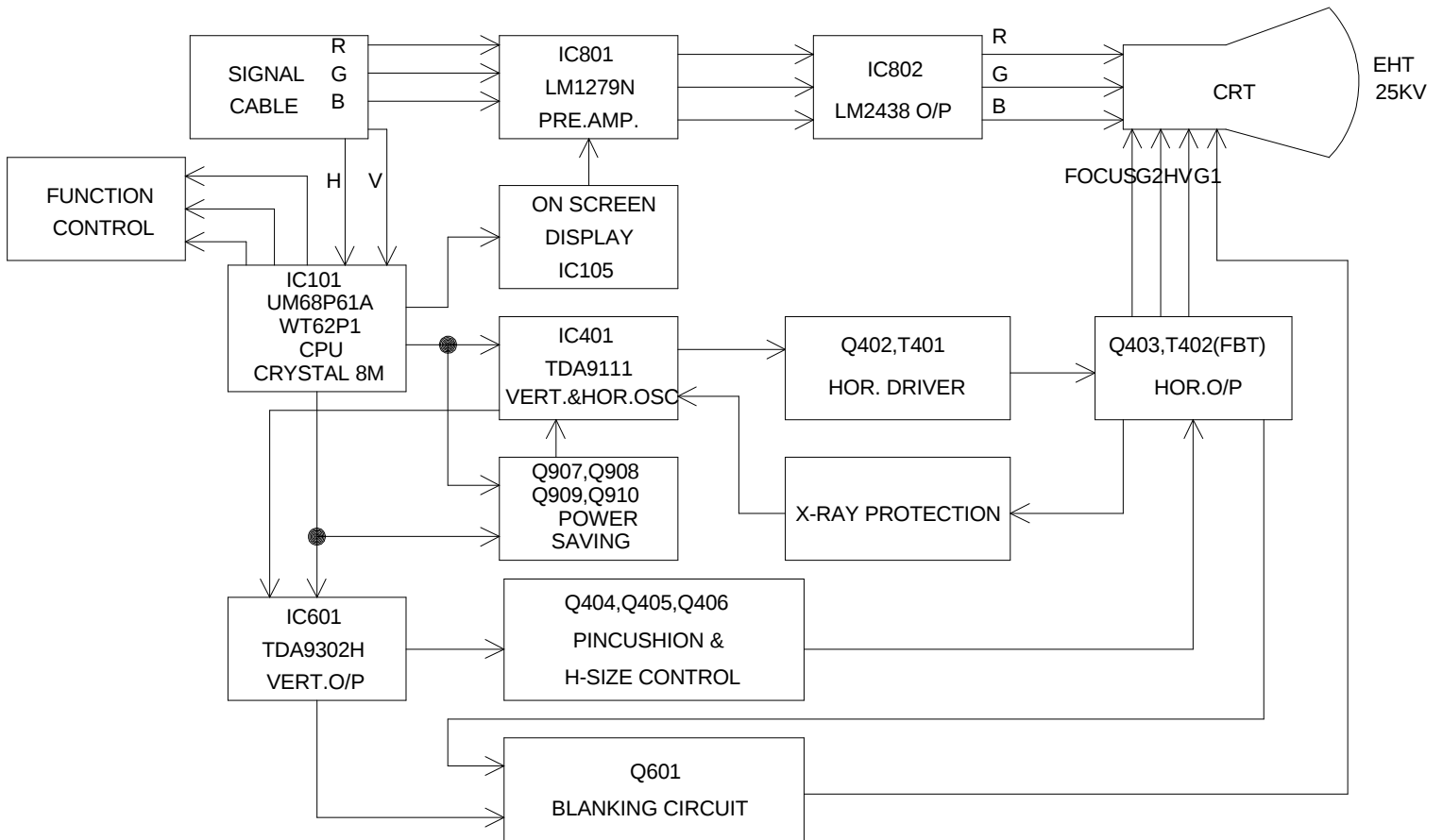
LOCATION	PARTS No.				SPECIFICATION
C108	65A	442-	220 -	13T	22PF +-5% NPO 50V
IC101	56A	1125-	510		WT62P1
IC102	56A	1133-	11		24LC04B/P
IC105	56A	1131-	503		MTV018N04
X101	93A	22-	43		12.0 MHZ

PARTS LIST OF CRT ALTERNATION

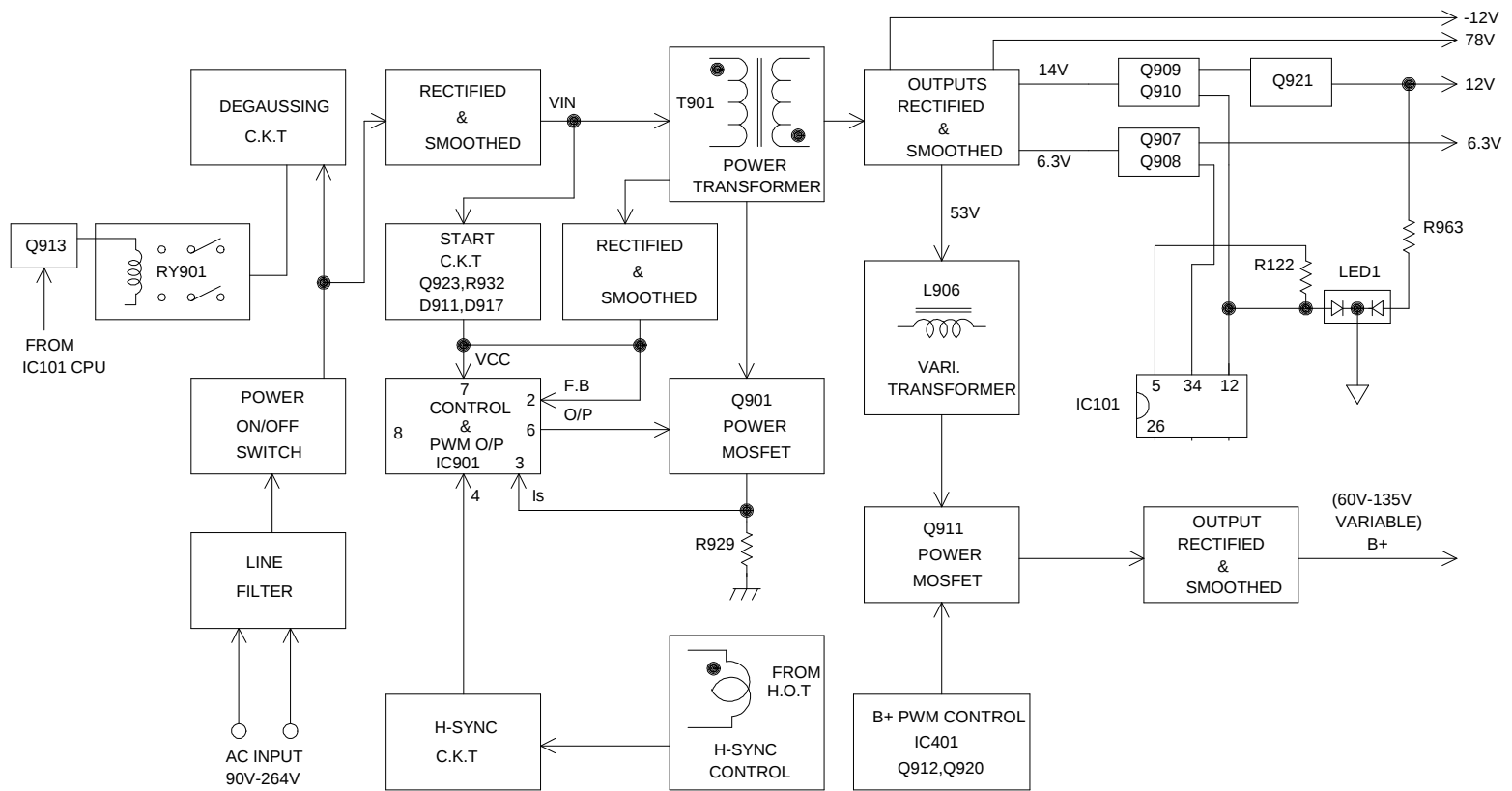
LOCATION	PARTS No.				SPECIFICATION
	750A	5866-	3AV		LG .27 17" CRT MPRII
C450	95A	90-	23		TIN COATED
C480	95A	90-	23		TIN COATED
R490	61A	210-	273 -	52T	27K OHM +-1% 1/6W
R607	61A	208-	828 -	64	0.82 OHM 1W
TP403	95A	201F-	50 -	162	PULSE

LOCATION	PARTS No.				SPECIFICATION
	750A	5868-	3AV		LG .27 17" S-ART TCO
C450	65A	1K-	101 -	5T	100PF 1KV +-10%
C480	65A	517M-	103 -	3A	0.01UF +-20% 500V
CL1	95A	201F-	50 -	052	PULSE WIRE
R490	61A	210-	273 -	52T	27K OHM +-1% 1/6W
R607	61A	208-	828 -	64	0.82 OHM 1W
TP403	95A	201M-	50 -	142	PULSE

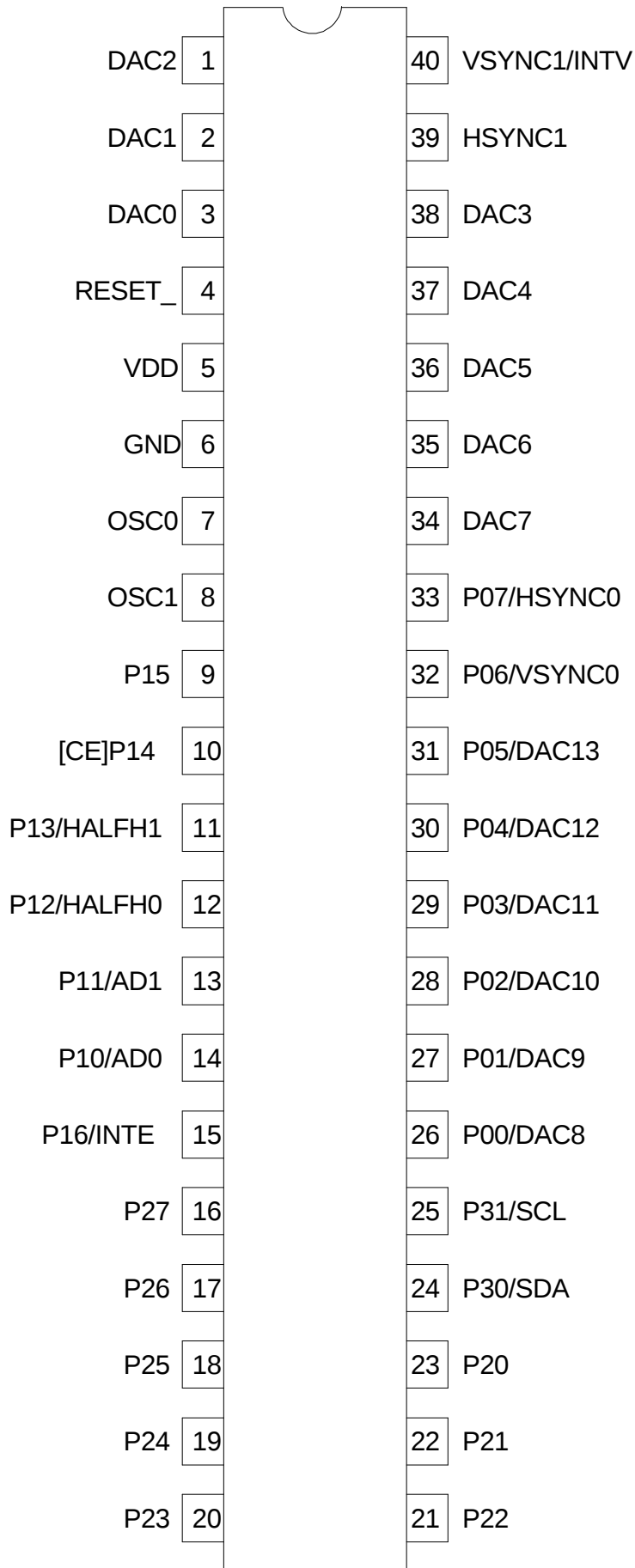
9. BLOCK DIAGRAM



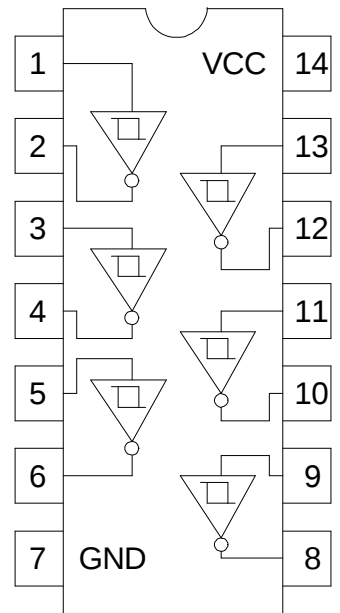
9-1 BLOCK DIAGRAM (SMPS)



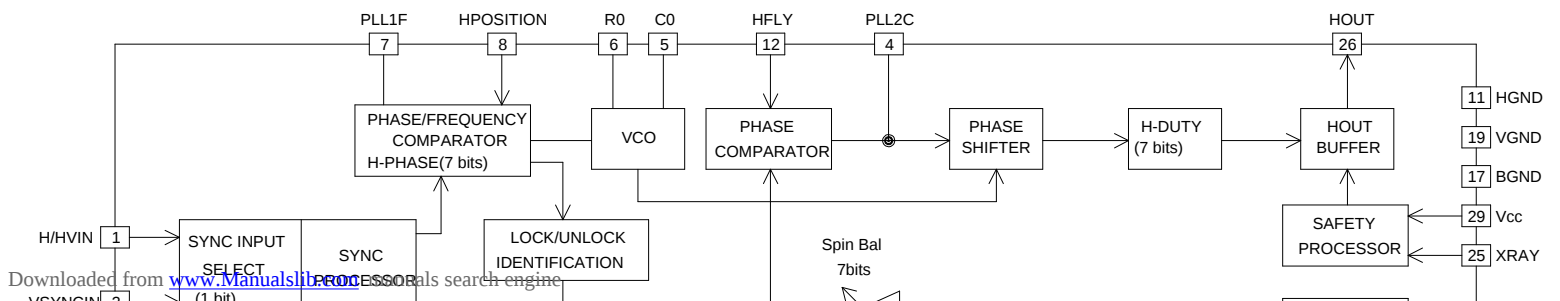
IC101
UM6861/WT62P1



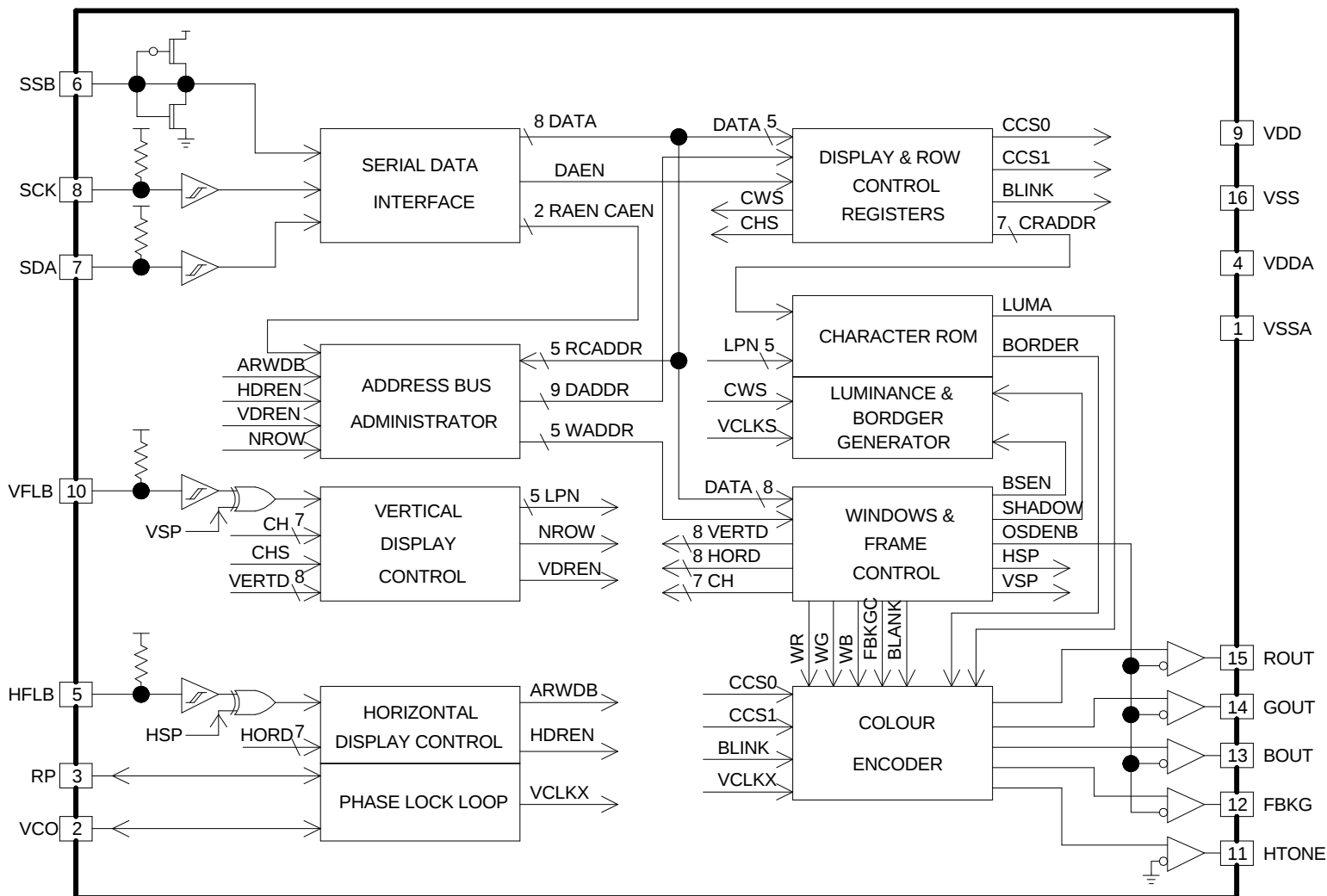
IC104
74LS14



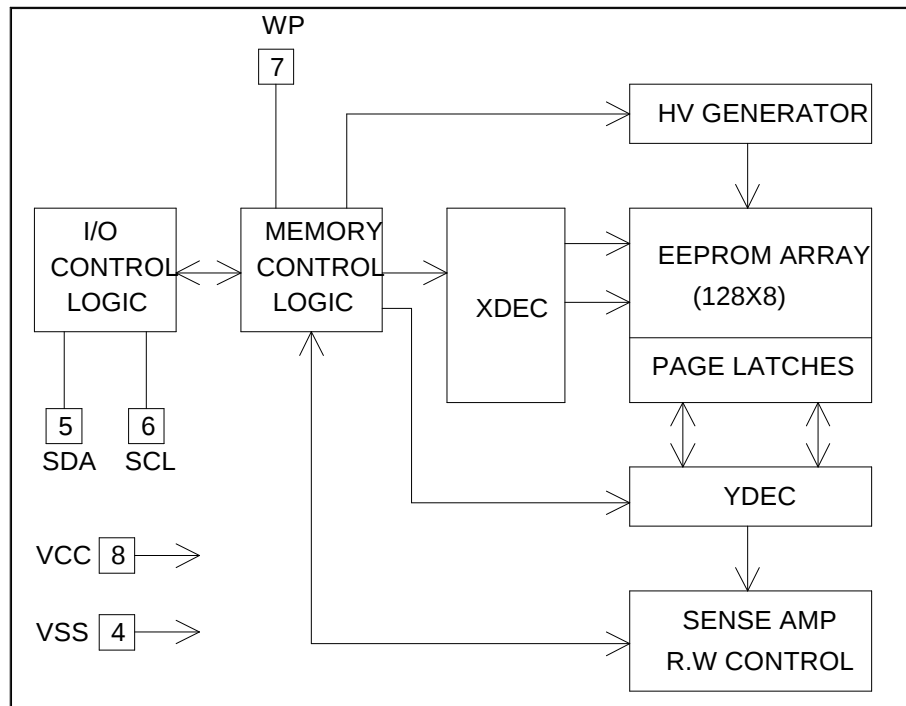
IC401
TDA9111



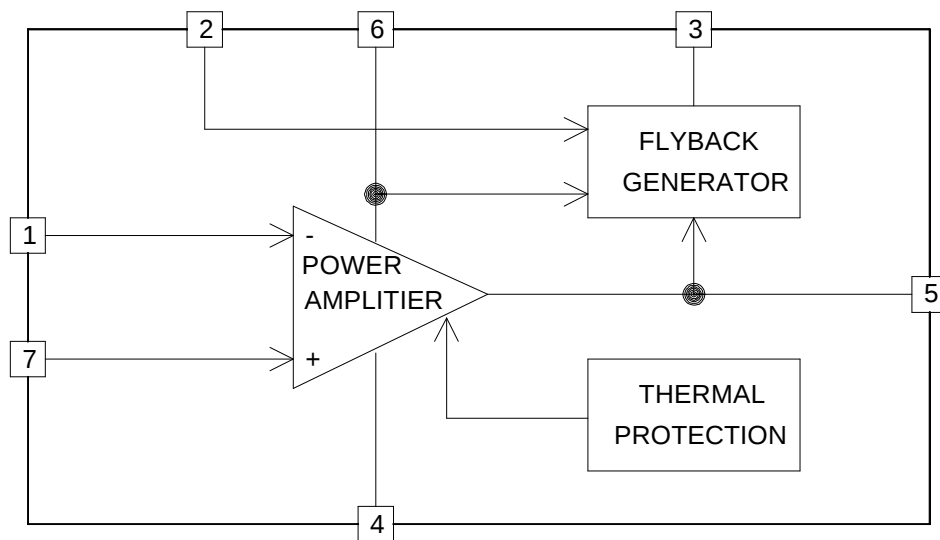
IC105 MTV016



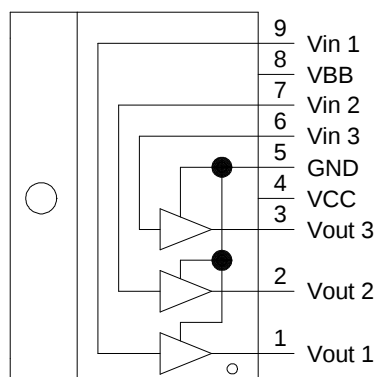
IC102 24C04



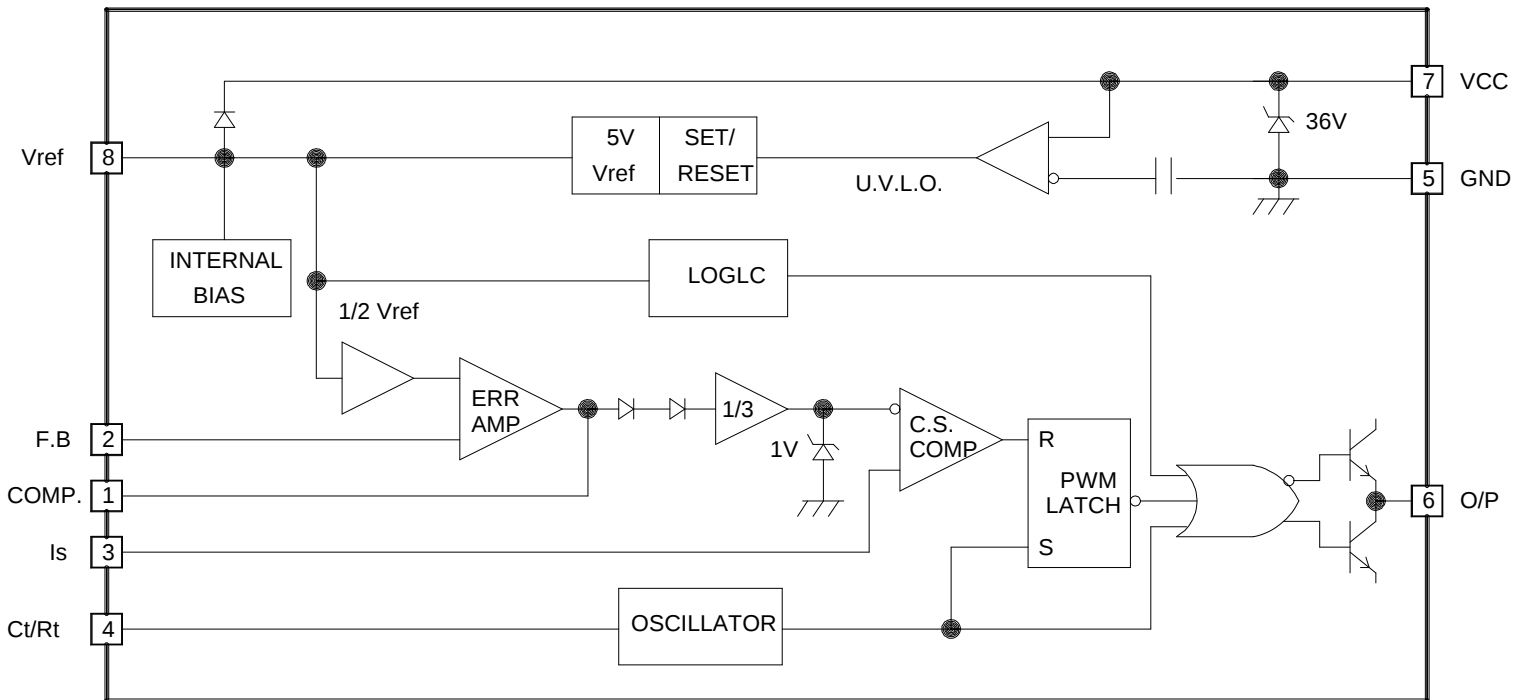
IC601 TDA9302H



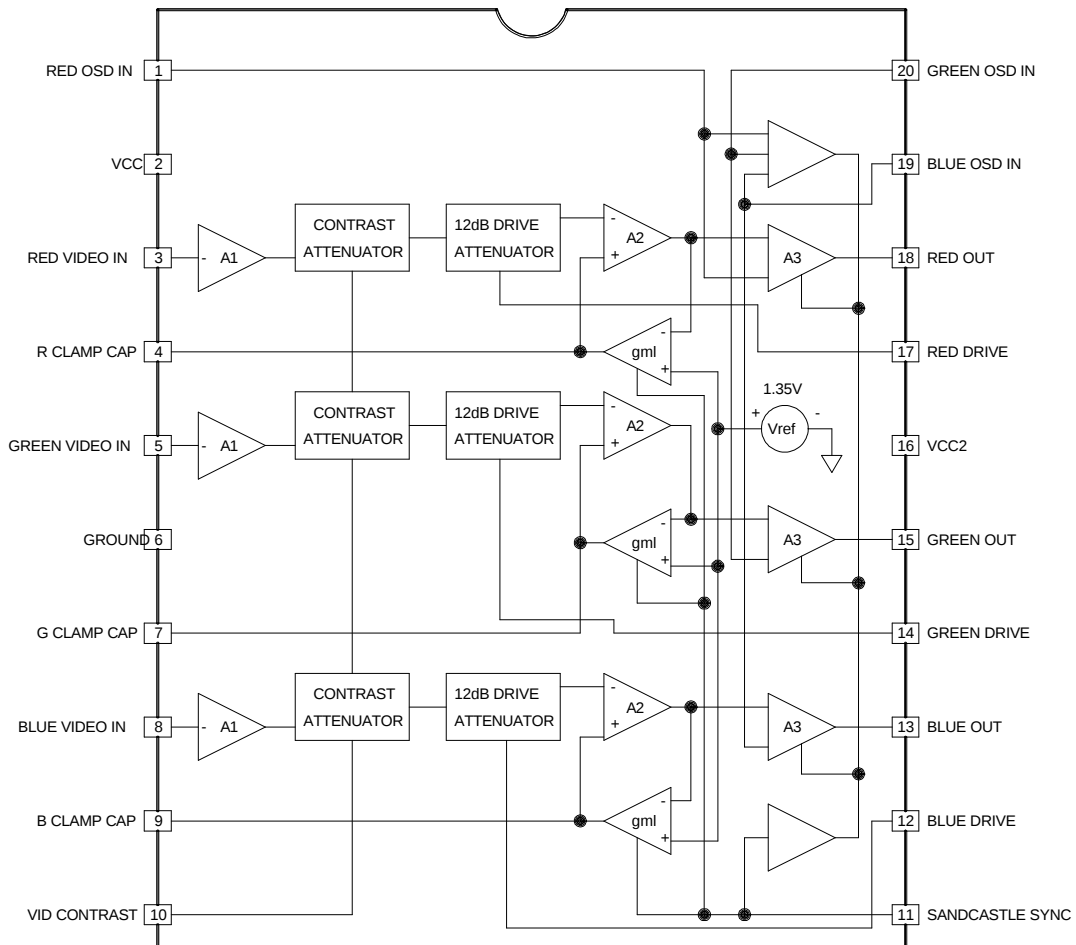
IC802 LM2438/LM2439



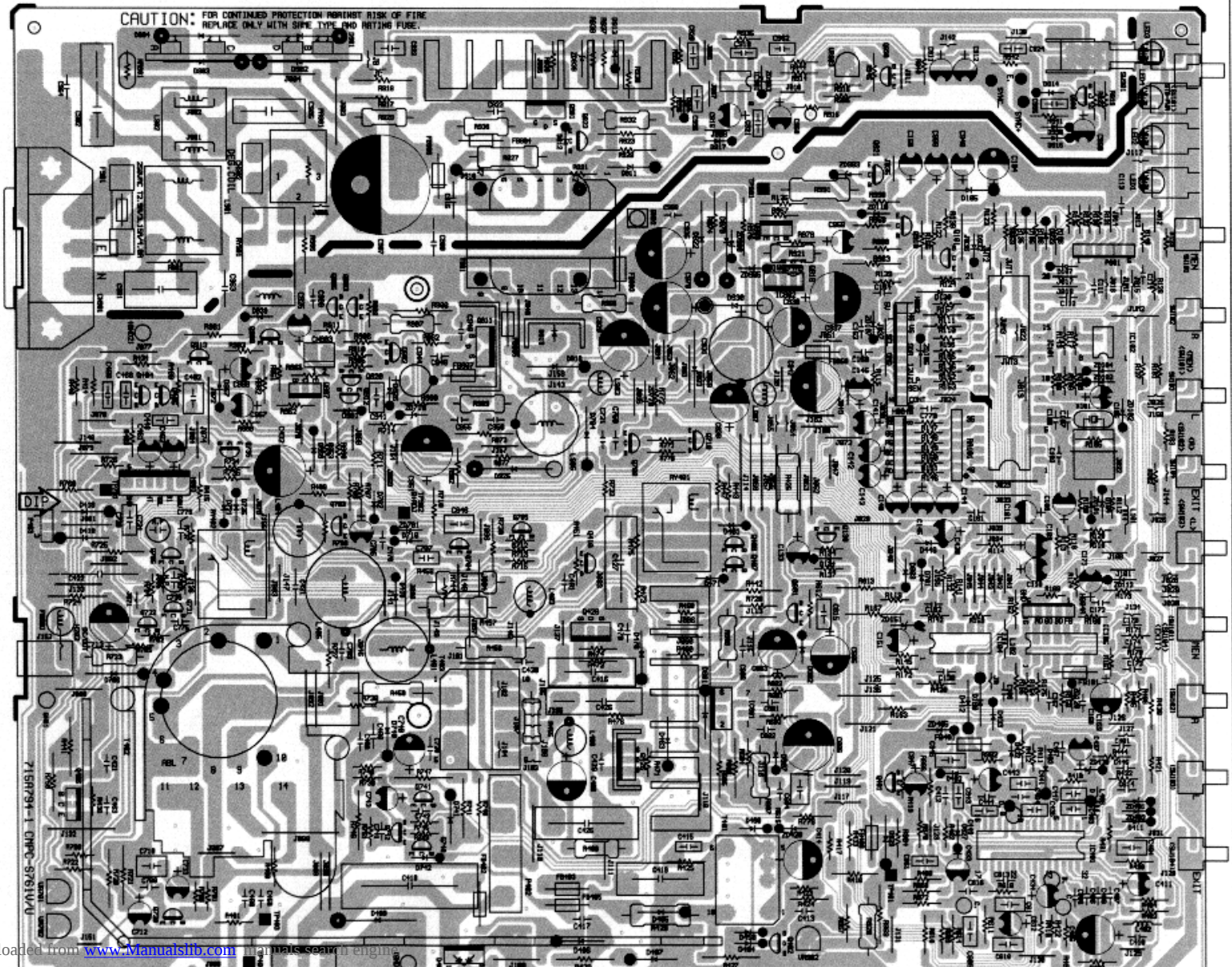
IC901 3842



IC801 LM1279N/LM1279AN

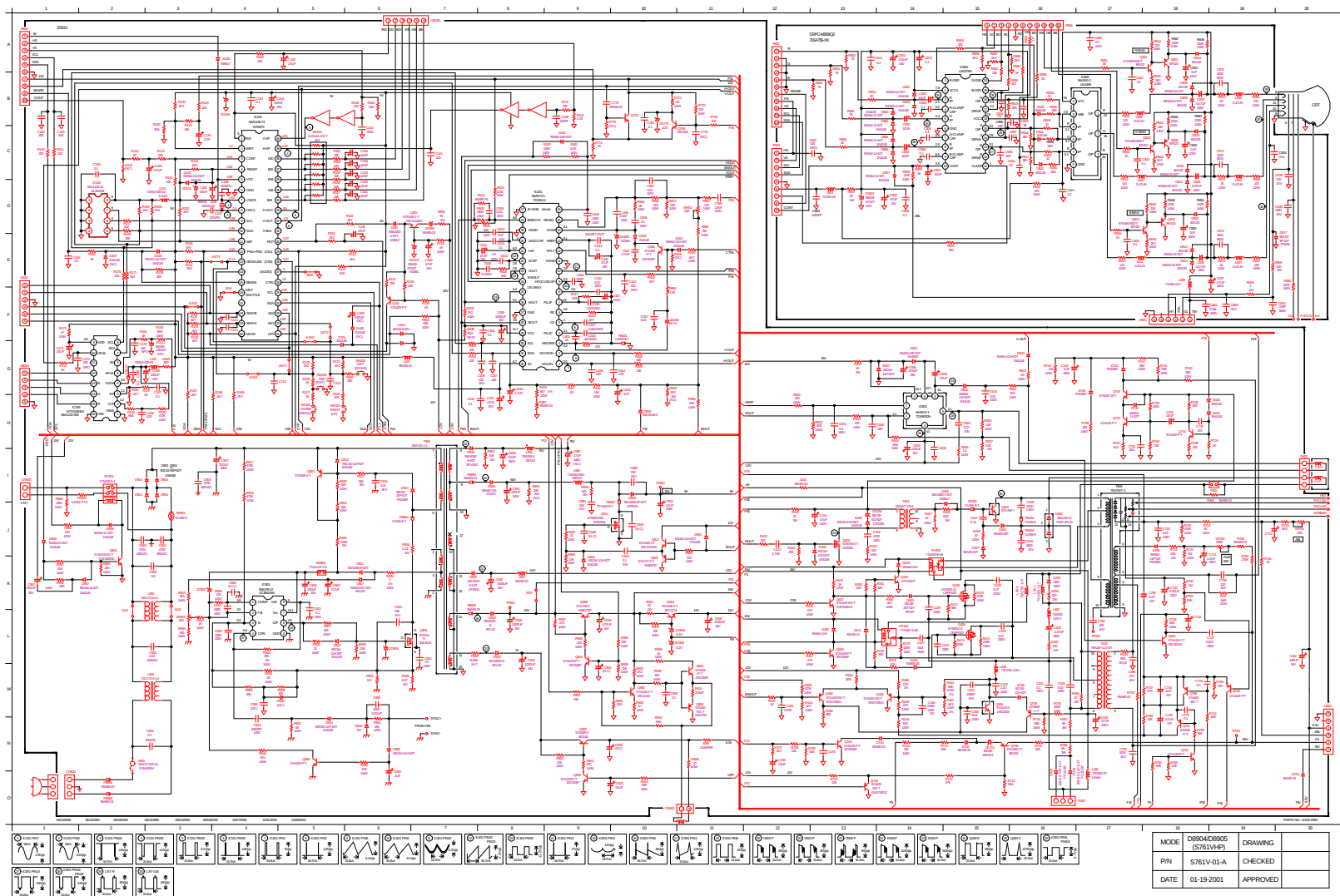


CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE
REPLACE ONLY WITH SAME TYPE AND RATING FUSE.

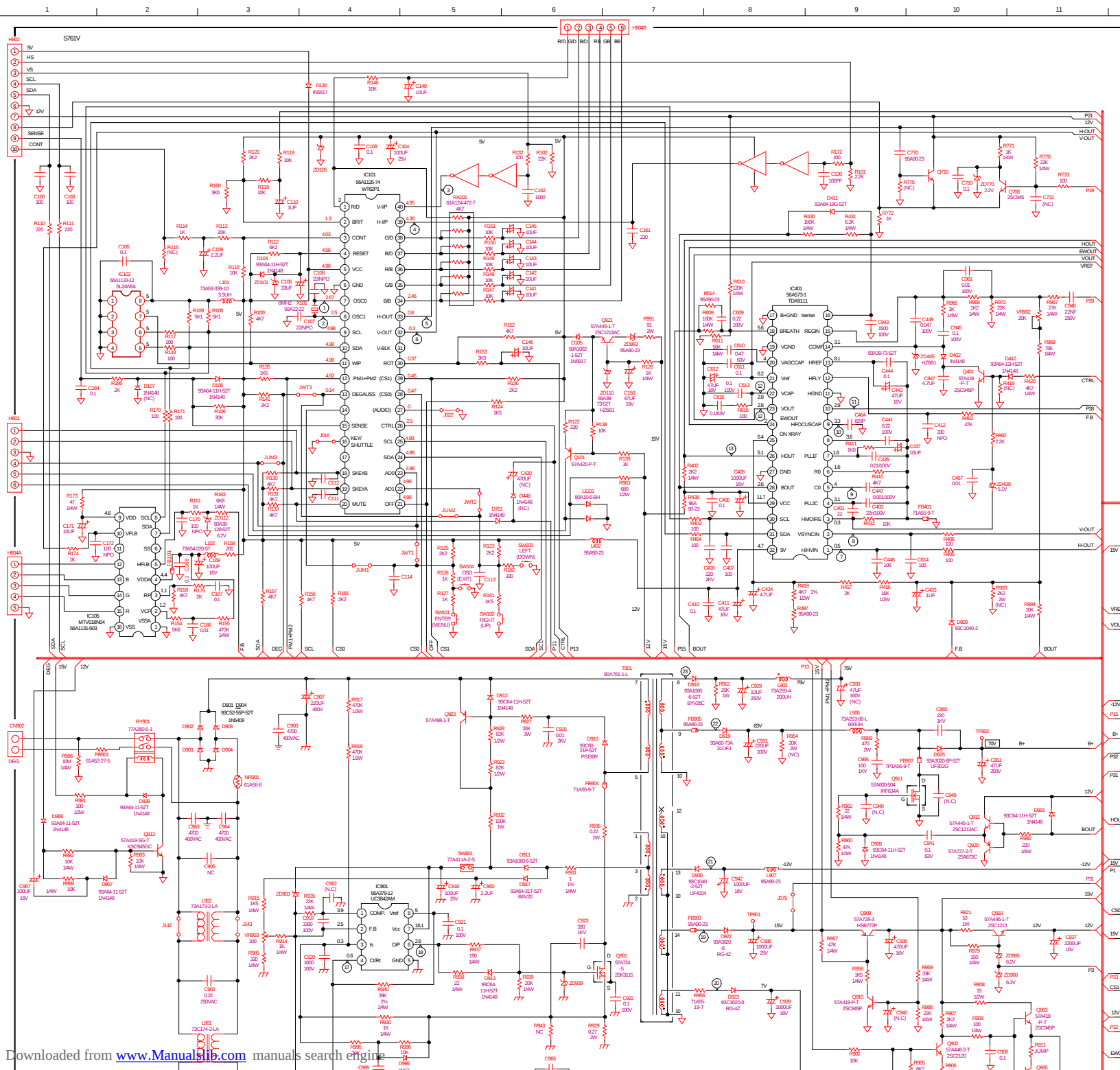


715R794-1 CIRC-5761UW

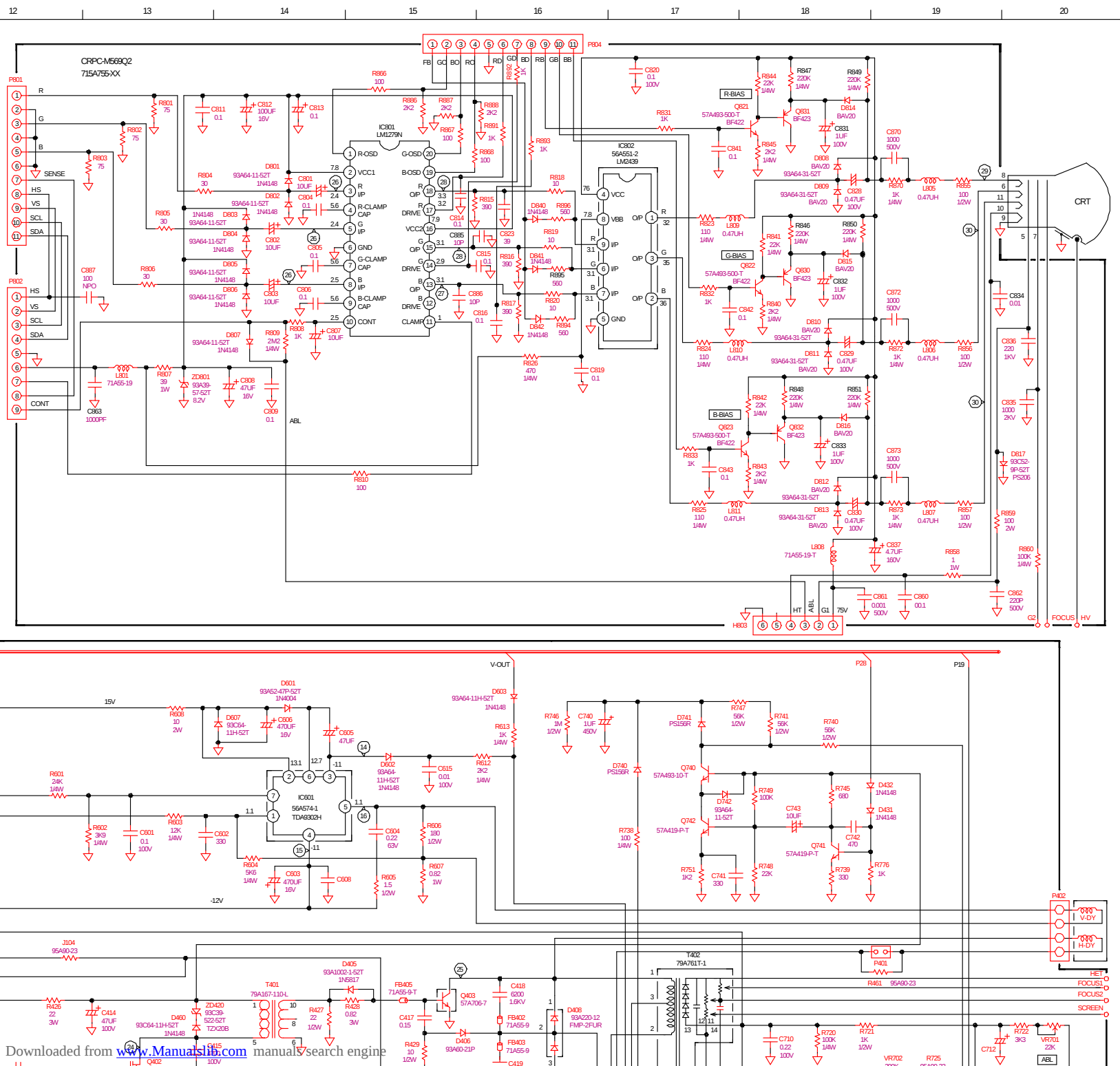
12 SCHEMATIC DIAGRAM

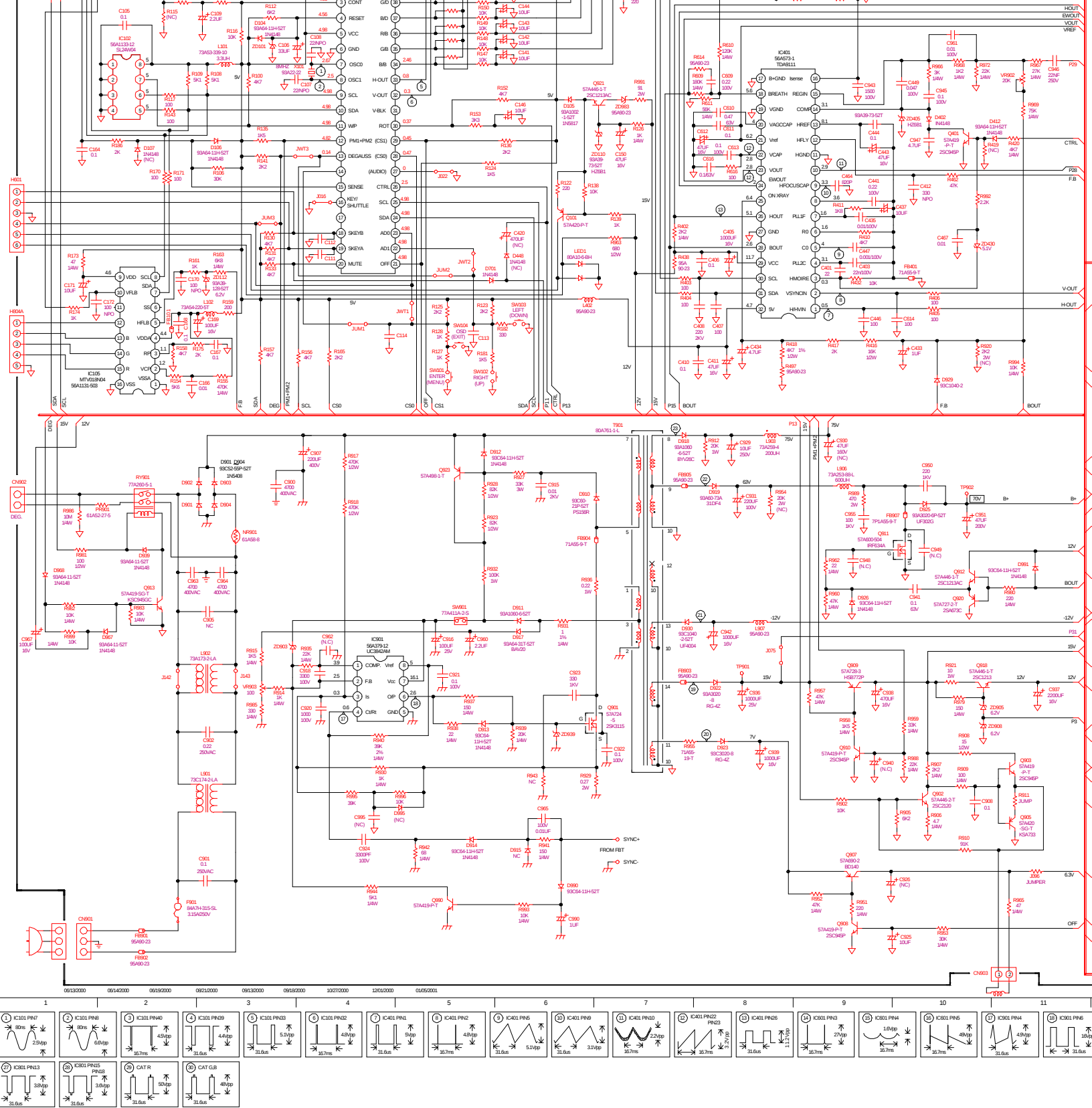


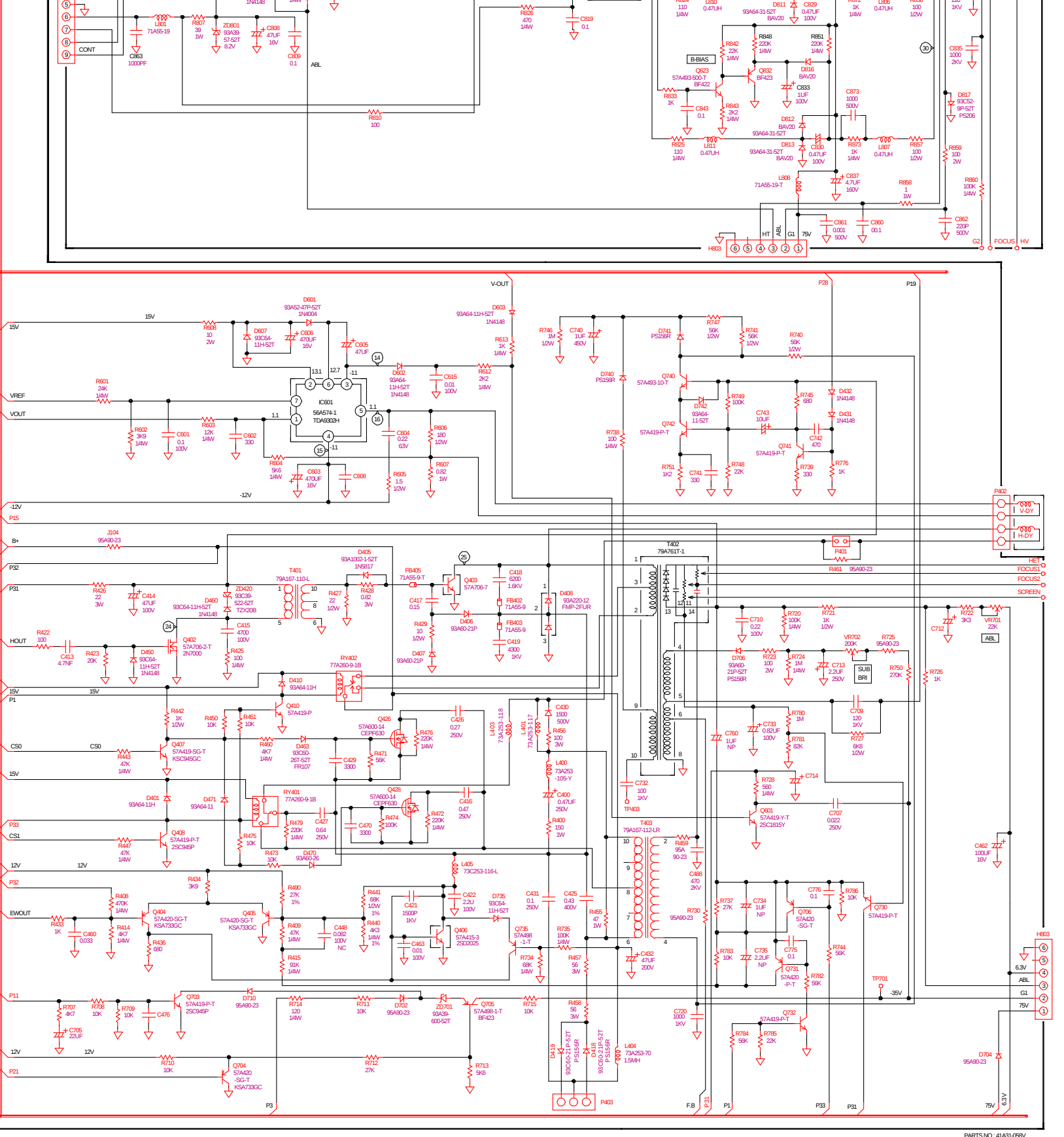
12 SCHEM



OMATIC DIAGRAM







MODE	D8904/D8905 (S761VHP)	DRAWING	
P/N	S761V-01-A	CHECKED	
DATE	01-19-2001	APPROVED	

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